SERVICE MANUAL

MODEL NO. : KDM-2055

REV NO. : 00

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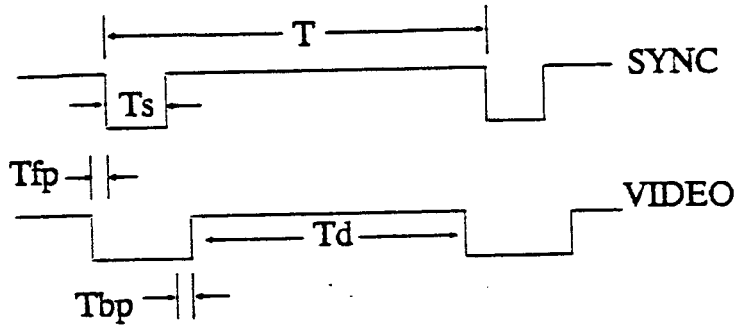
A. SPECIFICATIONS :

1. SCREEN	20" 0.31mm Dot pitch Medium short, Anti-glare
2. POWER SOURCE	120VAC, 60Hz / 220VAC, 50Hz AUTO SWITCH.
3. POWER CONSUMPTION	130W(max)
4. INPUT SIGNAL VIDEO SYNC	 Analog R.G.B. : 0.7Vpp (positive) TTL level positive or negative
5. INTERFACE	15 Pin D type connector
6. RESOLUTION	1024 X 768 pixels (Non-interlace)

7. RECOMMENDED TIMING CHART



A. PRESET TIMING FOR VGA (fH = 31.5KHz)

(1) 640 Dot x 350 Line Mode

	UNIT	Tfp	Ts	Tbp	Td	T
H	us	0.318	3.81	1.589	26.058	31.778
V	ms	0.985	0.064	1.716	11.504	14.268

* Frequencies : fd / 25.175MHz, fH / 31.468KHz, fV / 70.09Hz
* Interlace : NON
* SYNC polarity : H / positive, V / negative

(2) 720 Dot x 400 Line Mode

	UNIT	Tfp	Ts	Tbp	Td	T
H	us	0.318	3.81	1.589	26.058	31.778
V	ms	0.159	0.064	0.889	13.156	14.268

* Frequencies : fd / 28.322MHz, fH / 31.468KHz, fV / 70.09Hz
* Interlace : NON
* SYNC Polarity : H / negative, V / positive

(3) 640 Dot x 480 Line Mode

	UNIT	Tfp	Ts	Tbp	Td	T
H	us	0.318	3.81	1.589	26.058	31.778
V	ms	0.064	0.064	0.794	15.762	16.683

* Frequencies : fd / 25.175MHz, fH / 31.468KHz, fV / 59.94Hz
* Interlace : NON
* SYNC polarity : H / negative, V / negative

B. PRESET TIMING FOR 800 Dot x 600 Line (VGA PLUS) Mode

	UNIT	Tfp	Ts	Tbp	Td	T
H	us	0.67	2.0	3.56	22.22	28.44
V	ms	0.028	0.057	0.626	17.07	17.78

* Frequencies : fd / 36MHz, fH / 35.16KHz, fV / 56.25Hz
* Interlace : NON
* SYNC polarity : H / positive, V / positive

C. PRESET TIMING FOR 1024 Dot x 768 Line Mode

(1) 8514A mode

	UNIT	Tfp	Ts	Tbp	Td	T
H	us	0.18	3.92	1.25	22.8	28.153
V	ms	0.014	0.113	0.563	10.81	23.0

* Frequencies : fd / 44.9MHz, fH / 35.53KHz, fV / 43.68Hz
* Interlace : INT
* SYNC polarity : H / positive, V / positive

(2) 48.5K Mode

	UNIT	Tfp	Ts	Tbp	Td	T
H	us	0.75	1.0	2.88	16.0	20.635
V	ms	0.083	0.083	0.66	15.84	16.67

* Frequencies : fd / 64MHz, fH / 48.49KHz, fV / 60Hz
* Interlace : NON
* SYNC Polarity : H / positive, V / positive

(3) 56K Mode

	UNIT	Tfp	Ts	Tbp	Td	T
H	us	1.396	2.49	1.17	12.68	17.736
V	ms	0.036	0.071	0.55	13.621	14.278

* Frequencies : fd / 80MHz, fH / 56.38KHz, fV / 70.04Hz
* Interlace : NON
* SYNC polarity : H / negative, V / negative

8. DISPLAY SIZE	360 (W) X 270 (H) +/- 5mm (only for VGA)
9. OPERATION TEMPERATURE	5-35 degree C
10. DIMENSION	478 (W) X 470 (H) X 444 (D) mm
11. WEIGHT	26.5 kgs
	(58.3 lbs)

B. IMPORTANT SAFETY INSTRUCTION

Prior to using this manual, please ensure that you have carefully followed all the procedures outlined in the user's manual for this product.

1. Read all of these instructions.

2. Save these instructions for later use.

3. Follow all warnings and instructions marked on the product.

4. Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

5. Do not use this product near water.

6. Do not place this product on an unstable cart, stand or table. The product may fall, causing serious damage to the product.

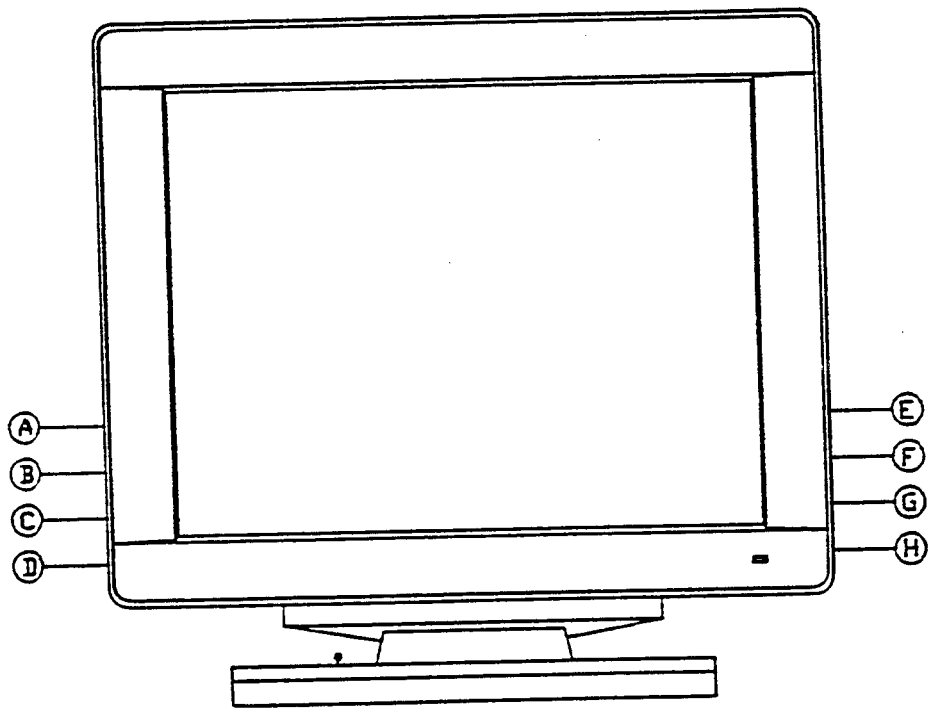
7. Slots and openings in the cabinet and the back or bottom are provided for ventilation; to ensure reliable operation of the product and to protect it from overheating, those openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should never be placed near or over a radiator or heat register. This product should not be placed in a built-in installation unless proper ventilation is provided.

8. This product should be operated from the type of power source indicated on the marketing label. If you are not sure of the type of power available, consult your dealer or local power company.

9. This product is equipped with a 3-wire grounding type plug, a plug having a third (grounding) pin. This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the purpose of the grounding-type plug.

10. Do not allow anything to rest on the power cord. Do not locate this product where persons will walk on the cord.

C.LOCATION OF CONTROLS



A: H—SIZE
B: H—PHASE
C: V—SIZE
D: V—CENTER

E: DEGAUSS
F: CONTRAST
G: BRIGHT
H: POWER $^{0}_{1}$

D. CIRCUIT DESCRIPTION

1. Power circuit
The power circuit includes the start up, mode control operation, and ocp circuit. Please refer to the circuit diagram.
a) Start up circuit
The series resistor R902A and R902 provide the start up current of I901. The turn-on and turn off thresholds of under-voltage lockout circuit in I901 are fixed interally at 16V and 10V respectively. At start-up, C906 must be charged to 16V with a current no less than 1mA.
b) Current-mode control operation
As B+ of I901 (Pin 7) more than 16V, it has square waveform on the totem-pole output (Pin 6) which can be operated to +/- 1 Amp peak for driving the gate of MOSFET Q901. The current sensing resistor R914 senses the primary current waveform for current-mode PWM control and total output power limit.
c) OCP
As mentioned above the current sensing resistor R914 can limit the total power output. The voltage level of auxiliary power winding will drop with the secondary load increment. The auxiliary power voltage will be too low to drive the I901 at heary overload output condition. Then the I901 will be shut down after start up repeatly.

2. Horizontal circuit
a) Horizontal f to v circuit
It is the same as vertical f to v circuit I602 and inplements this function.
b) Horizontal first stage circuit
The main function of this stage have horizontal synchronization, free-running oscillation, AFC and horizontal-phase adjustment.
b-1 Free-running oscillation.
Free-running oscillation is handled by the f to v voltage, the f to v voltage which is from I602 Pin 1, via I604 Pin 8, Pin 9, Pin 10, to I503 Pin 3. control the current of I501 Pin 1, and the current of I501 Pin 1 decides the horizontal free-running frequency.
b-2 Horizontal synchronization.
If input a sync pulse (negative polarity) to I501 Pin 4, synchronization is achieved.
b-3 Automatic frequency control
It will be compared with I501 Pin 2 sawtooth pulse when input a flyback pulse to I501 Pin 8 And by the comparasion of these two pulse, automatic frequency control function is achieved.
b-4 Horizontal-phase adjustment
The I501 internal circuit also has the horizontal-phase adjustment function. It is easy to add and change a DC voltage to I501 Pin 10 to complete this function.
c) Side-pin and H-size control circuit
I504, I505, I506, Q505 and Q506, Q510, Q508 are main parts of this circuit. I504 is a parabola pulse processor. I505 Pin5, Pin 6, Pin 7, is a comparater of parabola pulse and sawtooth pulse. I505 Pin 3, Pin 2, Pin 1 is a buffer. I506, Q505 are multiplier. Q506 is a voltage amplifier. Q510 and Q508 are a current amplifier.

d) Horizontal pre-driver circuit and driver circuit
The main function of these stage is to supply enough energy to horizontal output circuit. I401 is a duty-ratio control circuit. Q401 and Q402 are pre-driver circuit. T401 is driver circuit.

e) Horizontal output stage circuit
Horizontal output stage circuit belongs to diode modulation type. Q403, D404, D405, C409, C410, T402, L501 and L401, L402, L403, C413, C414 are main parts of this circuit.

f) Horizontal B+ step up circuit
In order to keep the same high voltage of CRT and horizontal raster size, it must supply different B+ voltage according to different horizontal frequency. B+ voltage is positively proportional to the horizontal frequency. And the horizontal B+ step up circuit has this function. I402, Q406, Q407, Q408, D413 and C420 are main parts of this circuit.

g) Spot killer circuit
It have very bright line or dot on the CRT screen when power turns off instantaneously, The spot killer circuit can avoid this defect. The main parts of this circuit are Q404, R428, C419, R429, C434.

h) X-ray protection circuit
It will emit x-ray and It will be harmful to human body when anode voltage of CRT is too high, The x-ray protection circuit can shut down the horizontal pulse to avoid x-ray emission. ZD405, SR401 are main parts of this circuit.

3. Vertical circuit
The vertical circuit includes pre-driver circuit, output circuit and vertical-size preset circuit, and vertical f to v circuit.

a) Vertical pre-driver circuit
* The function of pre-driver circuit have synchronization, free-running oscillation and sawtooth pulse producer.
* When vertical's f to v voltage, that it is produced by the I606, is from I606 Pin10 via I604 Pin 12, Pin 13, Pin 14 to I508 Pin 3 and Q502. This f to v voltage can control the current of Q502. The current of Q502 can control the vertical free-running frequency.
* When input a vertical sync signal (negative polarity) to I501 Pin 14, synchronization is achieved by I501's internal circuit.
* The internal circuit of I501 also has the sawtooth pulse generator.

b) Vertical output circuit and vertical-size preset circuit
* I502 is a vertical output IC. It implements the current amplifier function.
* When input a DC voltage to I501 Pin 16, It can decide the vertical raster size. If the DC voltage is higher, the vertical raster size is larger, and vice versa. Because the vertical video ratio is different in three VGA modes and in order to keep the same vertical size in three VGA modes I601 implements the vertical-size preset function.

c) Vertical f to v circuit
This is a control circuit, and it is a very fundamental and very important circuit in multi-sync monitor. We use this circuit to convert different frequency to different voltage. If the frequency is higher then the f to v voltage is also higher. I606 implements this function.

4. Video circuit

The video circuit contains three major portions

a) Video amplifier circuit

I201 used as a pre-AMP which inclued contrast control, brightness control and clamp function.

Q201, 231, 261 are buffers between pre-AMP & final-AMP.

Q202 + Q203, Q232 + Q233, Q262 + Q263 are cascodes for final-AMP.

b) SYNC seperate circuit

This circuit can seperate : seperate SYNC (H,V), composite SYNC (H+V) and composite video (SYNC on green).

I100 works as a seperate SYNC and composite SYNC processor.

I101 can switch the SYNC types i.e. to choose the composite video as SYNC input or not.

Q110 is a composite video (SYNC on green) processor.

c) Blanking circuit

Q112, 113 are vertical blanking.

Q114, 115 (buffer) couple the V blanking to G1.

E. GENERAL ADJUSTMENT

1. B + 24V adjustment : R957
   a) Connect the positive lead of multimeter to TP901, negative lead to chassis ground.
   b) Adjust R957 to obtain a 24V reading.

2. H-HOLD adjustment : R533
   a) Input the 48 KHz Timing to the display.
   b) Adjust R533 to obtain a 3.5V reading from Pin 3 of I501.

3. High Voltage adjust R437
   a) Turn off the power and connect the positive lead of high voltage voltmeter to the tube anode, negative lead to Chassis Ground.
   b) Turn on the power of display at least 15 minutes.
   c) Adjust R437 to obtain a 26KV reading.

4. Vertical raster center adjustment : R538
   Adjust R538 to let the raster be centered.

5. Horizontal phase adjustment : R506, R639, R640
   a) Input 31KHz Timing with cross hatch pattern.
   b) Adjust R506 to let the picture be centered.
   c) Input 48KHz Timing to do again with VR640.
   d) Input 56KHz Timing to do again with VR639.

6. Horizontal size adjustment : R569, 589, 591
   a) Input 31KHz (480 lines) Timing with cross hatch pattern.
   b) Adjust R591 to obtain a suitable horizontal size.
   c) Input 48KHz Timing to do again with R589.
   d) Input 56KHz Timing to do again with R569.

7. Pincushion adjustment : R564
   Adjust VR564 to obtain a best pincushion pattern.

8. Verical size adjustment : R503, R603A, R605A
   a) Input 31KHz (480 lines) Timing with crosshatch pattern.
   b) Adjust R503 to obtain a suitable Vertical size.
   c) Input 31KHz (400 lines) Timing to do again with R603A.
   d) Input 31KHz (350 lines) Timing to do again with R605A.

9. Focus adjustment :
   a) Display any character all over the screen.
   b) Set contrast max and brightness in cut off position.
   c) Adjust focus VR until the 1/4 and 3/4 position of center Horizontal line of the picture is sharpest.

10. Background white balance adjustment : R215, R245, R275
    a) Set all bias VR (R215, R245, R275) to max and let the raster be invisible.
    b) Display black pattern (all video signals are disabled) and adjust SCREEN VR until the raster just appear to see which color comes out first (red, green or blue colors).
    c) Adjust bias VR of the other 2 colors to get grey raster.
    d) Adjust SCREEN VR to let the grey raster no larger than 1 FT-L.

11. White balance adjustment : R204, 234, 264
   a) Input the mosaic pattern and set contrast VR to max, bright VR at click position.
   b) Connect the probe of scope on G-Cathode.
   c) Adjust R234 to get 40Vpp.
   d) Input the white pattern.
   e) Adjust the other two VRs to get the white pattern. (9300K + 27M.P.C.D)

12. Purity adjustment :
   a) Display magenta color pattern.
   b) Adjust the purity magnet so that the picture is in magenta color. By truning two overlapping pawls in opposite directions, move them until they are at the same angle, the 9 o'clock and 3 o'clock positions repectively (shown in Fig1).

13. Static convergence adjustment : (show in Fig 2)
   a) Display magenta crosshatch pattern.
   b) Open the two pawls of the 4-pole magnets to allow the red and blue vertical line to unite.
   c) Open and rotate the two pawls at a constant angle so that the red and blue horizontal lines unite.
   d) If the vertical line deviates, open the two pawls at the deviation position and make a minor adjustment by changing its angle.
   e) Display white crosshatch pattern.
   f) Make the red and blue vertical lines at the center unite with the green by opening the two 6-pole pawls.
   g) Rotate the two pawls at constant angle so that the red and blue horizontal lines unite with the green.
   h) If the vertical lines deviate, change the angle of pawls from the deviation position.

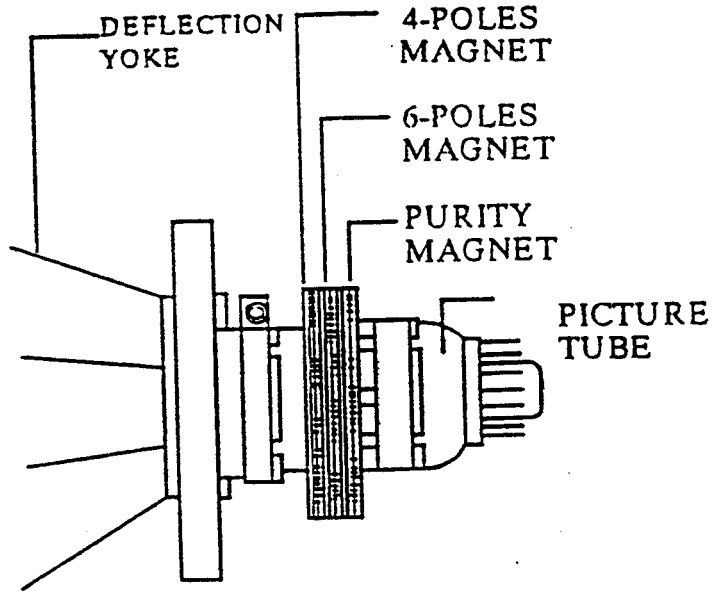


FIG. 1

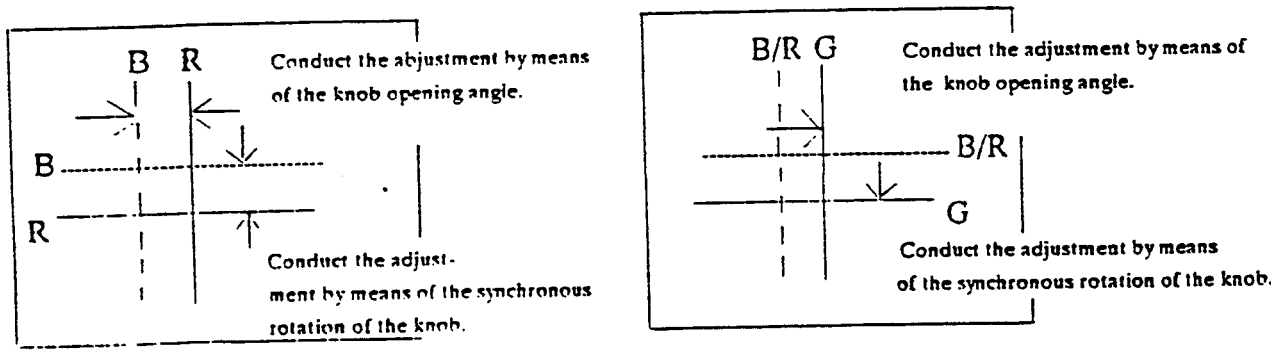
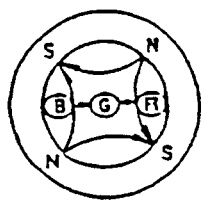
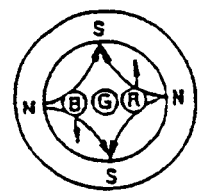

B R
Conduct the abjustment by means of the knob opening angle.
B
R
Conduct the adjustment by means of the synchronous rotation of the knob.
B/R G
Conduct the adjustment by means of the knob opening angle.
B/R
G
Conduct the adjustment by means of the synchronous rotation of the knob.

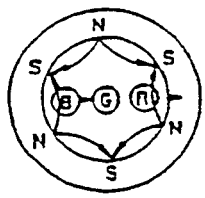
FIG. 2



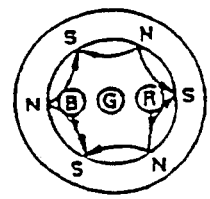
Beam migration in application of 4-pole magnets.



Beammigration in application of 4-pole magnets rotated.



Beammigration in application of 6-pole magnets.

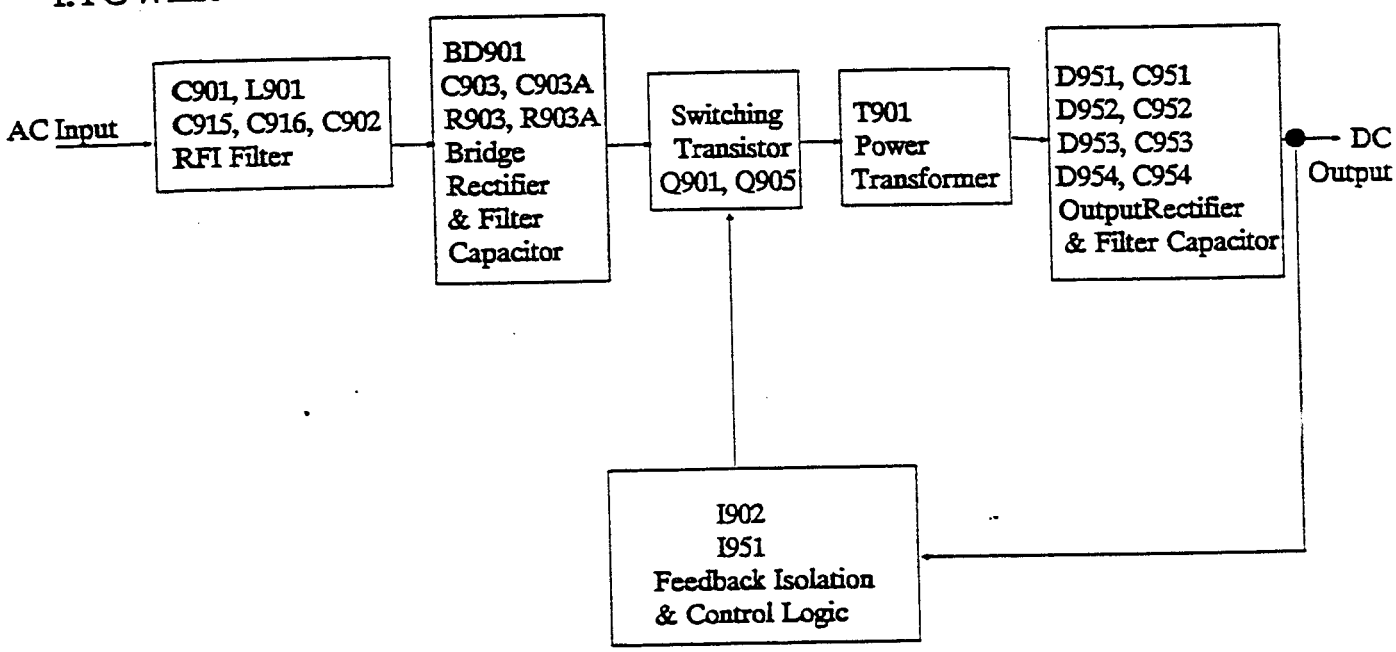


Beam migration in application of 6-pole magnets rotated.

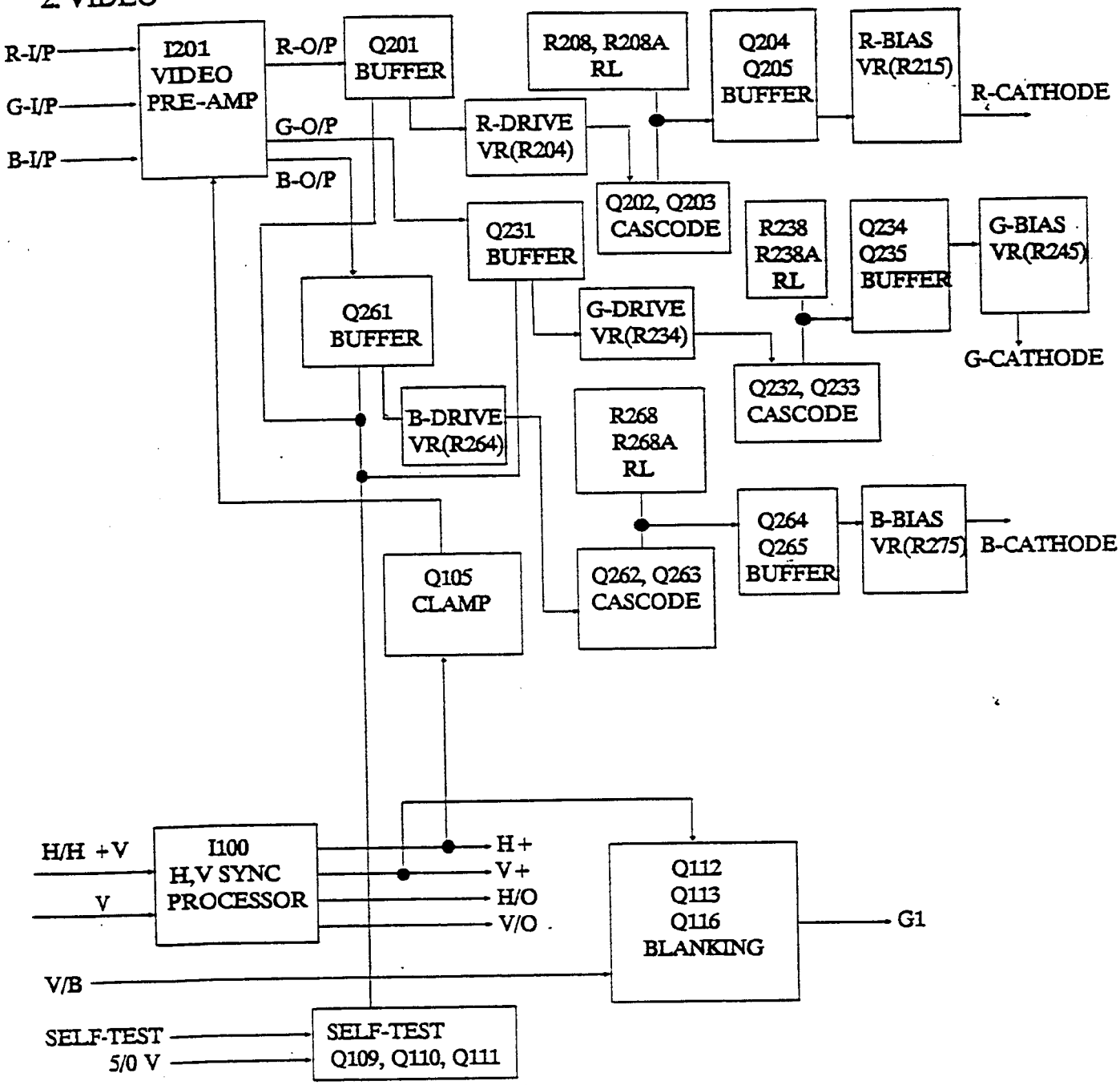
FIG. 3

F. BLOCK DIAGRAM

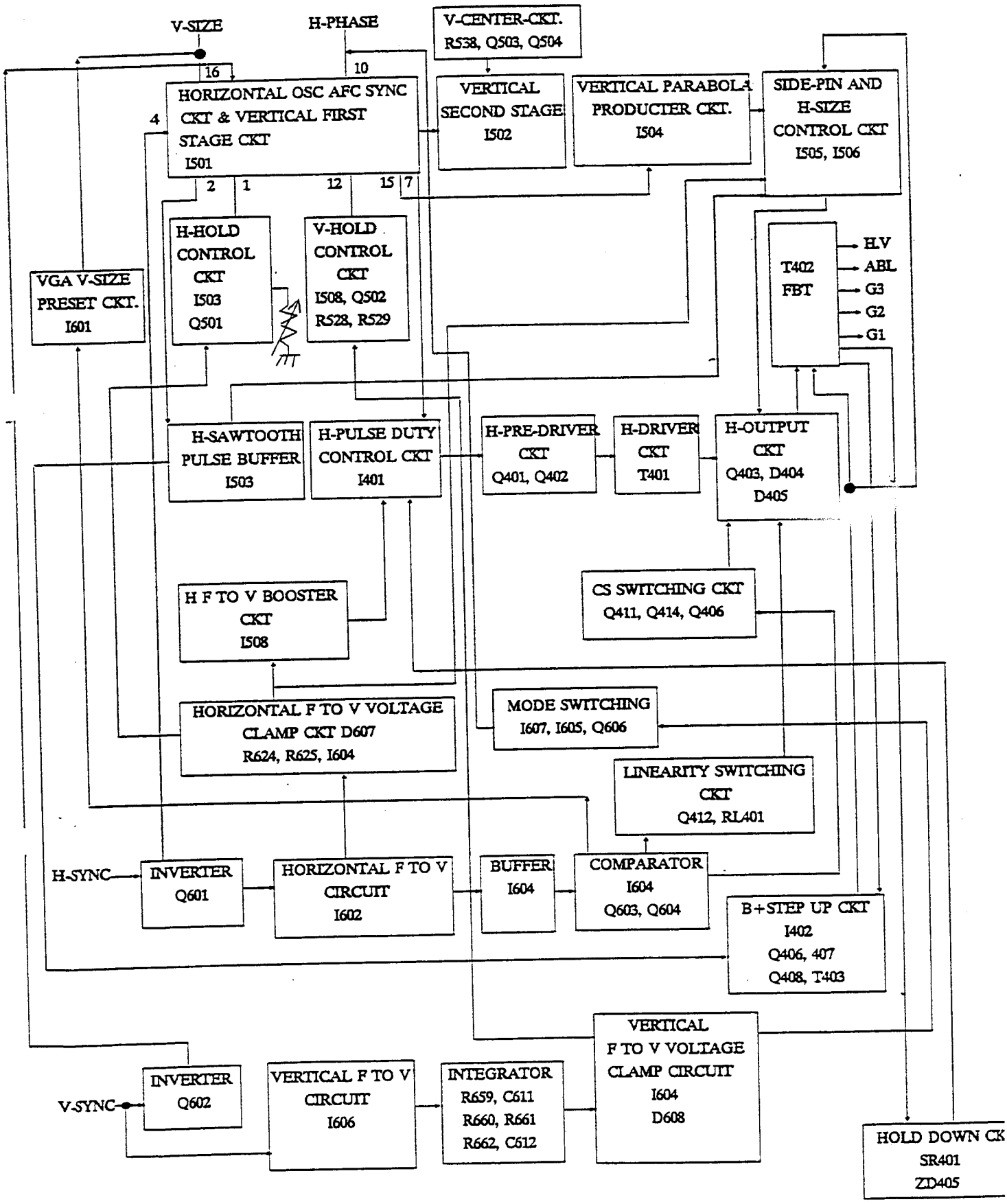
1. POWER



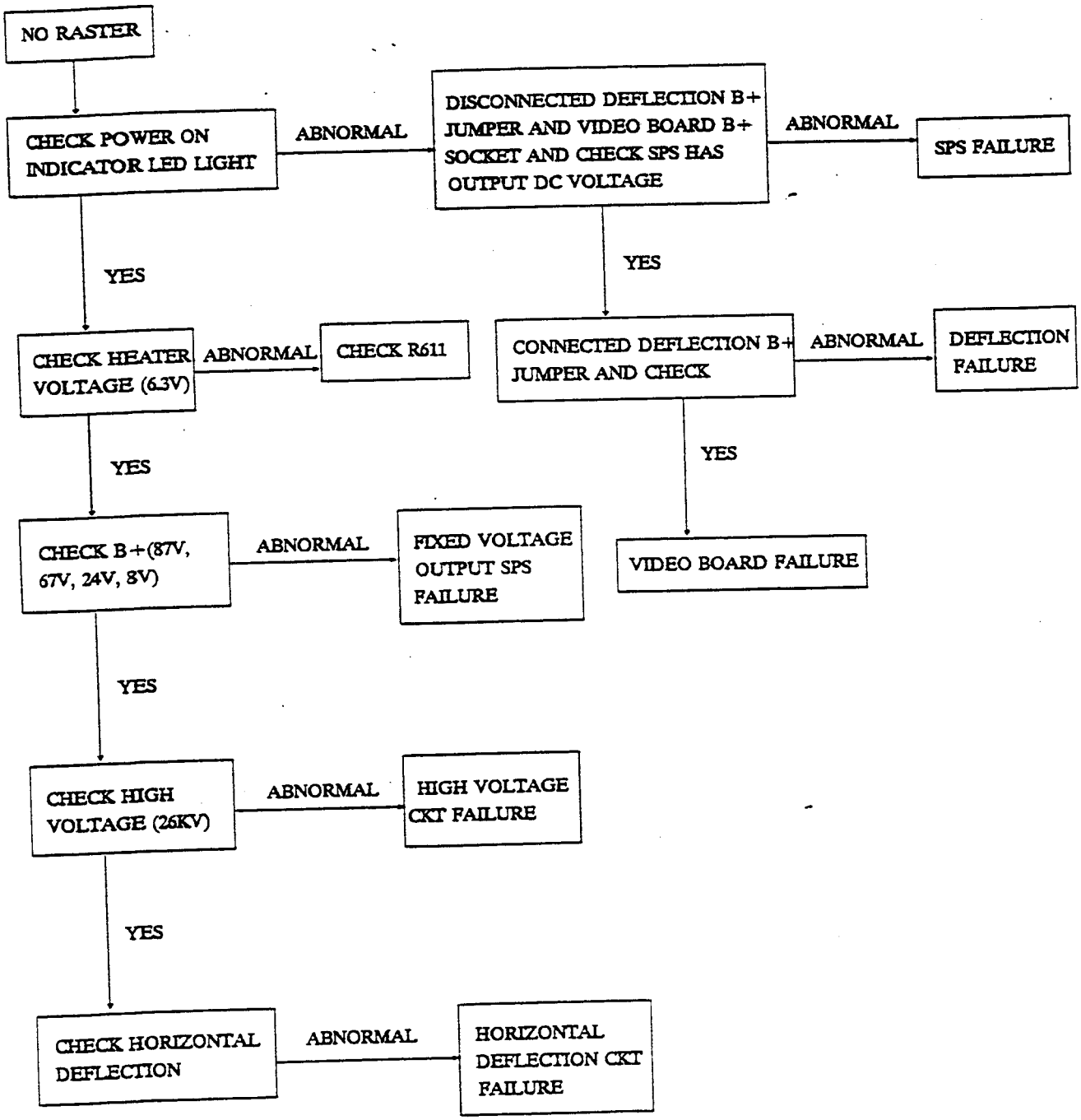
2. VIDEO

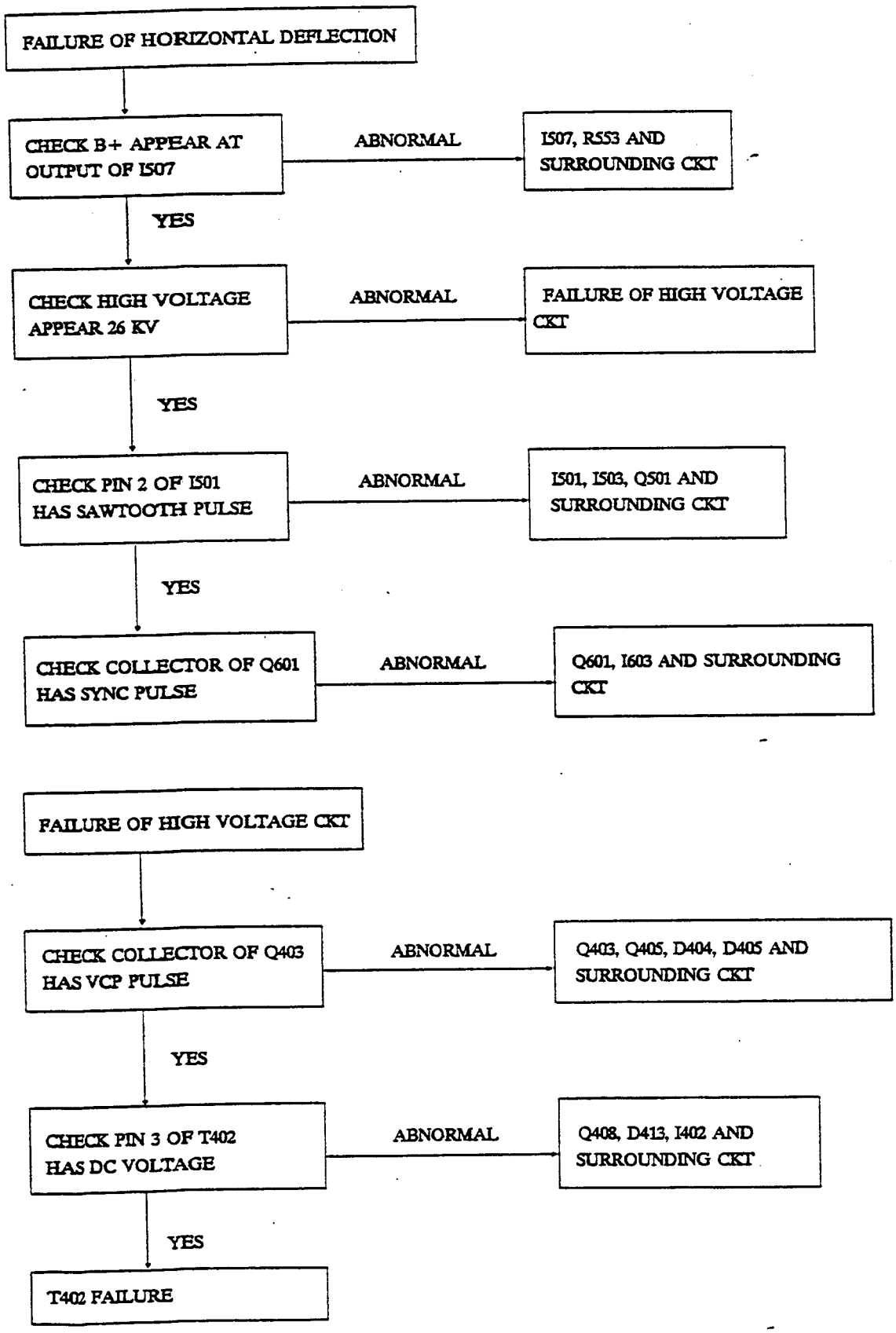

R-I/P
G-I/P
B-I/P
I201
VIDEO
PRE-AMP
R-O/P
G-O/P
B-O/P
Q201
BUFFER
R208, R208A
RL
Q204
Q205
BUFFER
R-BIAS
VR(R215)
R-CATHODE
R-DRIVE
VR(R204)
Q202, Q203
CASCODE
Q231
BUFFER
R238
R238A
RL
Q234
Q235
BUFFER
G-BIAS
VR(R245)
G-CATHODE
Q261
BUFFER
G-DRIVE
VR(R234)
Q232, Q233
CASCODE
B-DRIVE
VR(R264)
R268
R268A
RL
Q264
Q265
BUFFER
B-BIAS
VR(R275)
B-CATHODE
Q105
CLAMP
Q262, Q263
CASCODE
H/H +V
V
I100
H,V SYNC
PROCESSOR
H+
V+
H/O
V/O
Q112
Q113
Q116
BLANKING
G1
V/B
SELF-TEST
5/0 V
SELF-TEST
Q109, Q110, Q111

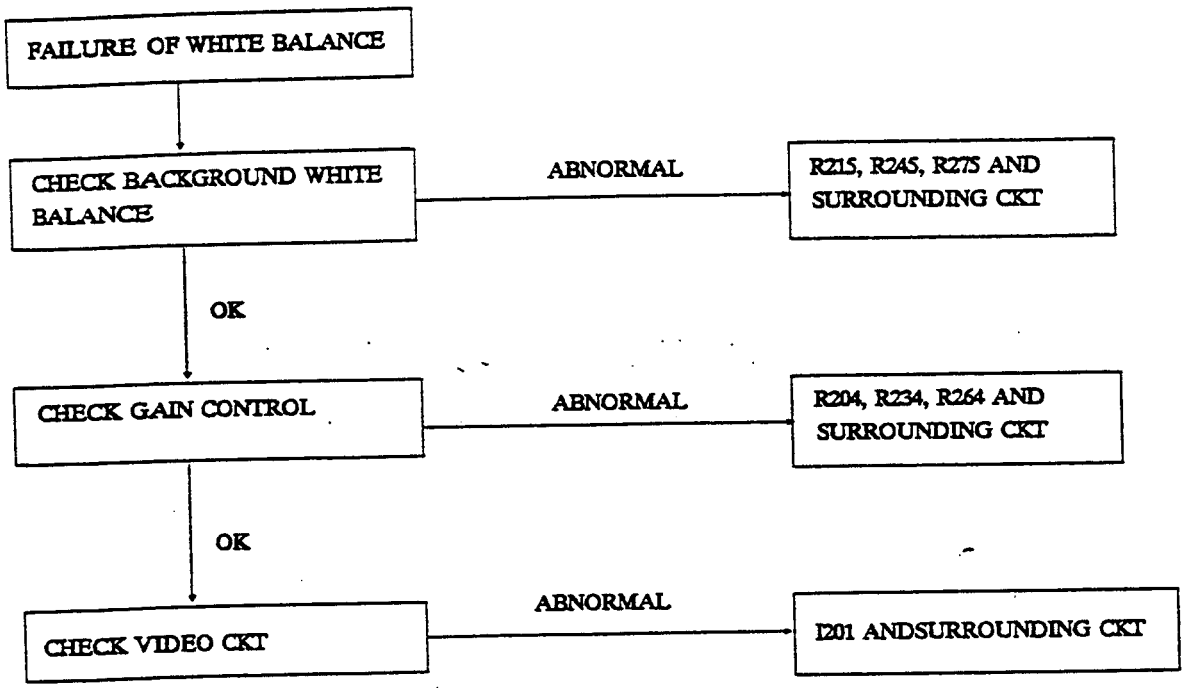
3. DEFLECTION



G. TROUBLE SHOOTING




FAILURE OF HORIZONTAL DEFLECTION
CHECK B+ APPEAR AT OUTPUT OF I507
ABNORMAL
I507, R553 AND SURROUNDING CKT
YES
CHECK HIGH VOLTAGE APPEAR 26 KV
ABNORMAL
FAILURE OF HIGH VOLTAGE CKT
YES
CHECK PIN 2 OF I501 HAS SAWTOOTH PULSE
ABNORMAL
I501, I503, Q501 AND SURROUNDING CKT
YES
CHECK COLLECTOR OF Q601 HAS SYNC PULSE
ABNORMAL
Q601, I603 AND SURROUNDING CKT
FAILURE OF HIGH VOLTAGE CKT
CHECK COLLECTOR OF Q403 HAS VCP PULSE
ABNORMAL
Q403, Q405, D404, D405 AND SURROUNDING CKT
YES
CHECK PIN 3 OF T402 HAS DC VOLTAGE
ABNORMAL
Q408, D413, I402 AND SURROUNDING CKT
YES
T402 FAILURE


FAILURE OF WHITE BALANCE
CHECK BACKGROUND WHITE BALANCE
ABNORMAL
R215, R245, R275 AND SURROUNDING CKT
OK
CHECK GAIN CONTROL
ABNORMAL
R204, R234, R264 AND SURROUNDING CKT
OK
CHECK VIDEO CKT
ABNORMAL
I201 ANDSURROUNDING CKT

PICTURE TUBE—

	37 VB48JLJ30X26—	CRT

INTEGRATED CIRCUIT—

I100	20 VSISN74HC86N-T-	Sync Processor
I101	58 VSI74LS125——	
I102	55 VSILM319N——	
I150	65 VSIMC7812CT—	12V Voltage Regulator
I201	32 VSICXA1209P—	Video R.G.B. Predriver
I401	33 VSI74LS221——	
I402	47 VSIHC5238——	B+ Step-up Control
I501	27 VSITDA8102B—	Hor. OSC And Vert. First Stage
I502	57 VSITDA8172——	Vertical Deflection O/P Ckt
I503	15 VSILM358N——	H-HOLD Control And Buffer
I504	51 VSITDA8145——	Vertical Parapola Producer
I505	47 VSIHC5238——	Side-Pin And H-Size Control
I506	15 VSILM358N——	V-HOLD and Buffer Control
I507	65 VSIMC7812CT—	12V Voltage Regulator
I508	15 VSILM358N——	V-HOLD and Buffer Control
I601	67 VSIHCF4555BE—	VGA Mode V-SIZE Control
I602	52 VSIIR9331——	Horizontal F to V Control
I603	50 VSIMC7805CT—	+5V Voltage Regulator
I604	32 VSILM324N——	Buffer
I605	30 VSITC4066BP—	H-Phase Switching
I606	52 VSIMC14538BCP–	Vertical F to V Control
I607	35 VSILM393N—M-	H-Phase Switching Control
I901	36 VSIUC3842——	Pulse Width Modulation
I902	65 VSPCNX82A——	Opto Coupler
I902	10 VSPM0C8102T–M-	Second Source
I903	48 VSISTR81145A—	110V/220V Switching IC
I951	36 VSITL431CLP—	Prog.Precision Ref

TRANSISTOR—

Q101	03 VST2SD655E——	Sync Processor
Q102	03 VST2SD655E——	Sync Processor
Q103	03 VST2SD655E——	Sync Processor
Q104	03 VST2SD655E——	Sync Processor
Q105	57 VST2SA1029C—P	Clamp
Q106	03 VST2SD655E——	Sync Processor
Q107	01 VST2SC1815Y—P	Self Test Control
Q108	01 VST2SC1815Y—P	Self Test Control
Q109	01 VST2SC1815Y—P	Self Test Control
Q110	01 VST2SC1815Y—P	Self Test Control
Q111	30 VST2SB562C——	Self Test Control
Q112	30 VSTMPSA06——	Blanking
Q113	01 VST2SC1815Y—P	Blanking
Q114	34 VST2SC2235——	Blanking Buffer
Q115	85 VST2SB647—H-	Blanking Buffer
Q116	30 VSTMPSA06——	Blanking
Q119	60 VST2SA844D—P	
Q150	01 VST2SC1815Y—P	ABL Buffer

Q151	01 VST2SC1815Y—P	ABL Buffer
Q201	57 VST2SC1906—P	R Video Buffer
Q202	14 VST2SC3953DE—	R Video Amplifier
Q203	71 VST2SC4308—P	R Video Amplifier
Q204	85 VST2SC3467DE—	R Video Buffer
Q205	80 VST2SA1370DE—	R Video Buffer
Q231	57 VST2SC1906—P	G Video Buffer
Q232	14 VST2SC3953DE—	G Video Amplifier
Q233	71 VST2SC4308—P	G Video Amplifier
Q234	85 VST2SC3467DE—	G Video Buffer
Q235	80 VST2SA1370DE—	R Video Buffer
Q261	57 VST2SC1906—P	B Video Buffer
Q262	14 VST2SC3953DE—	B Video Amplifier
Q263	71 VST2SC4308—P	B Video Amplifier
Q264	85 VST2SC3467DE—	B Video Buffer
Q265	80 VST2SA1370DE—	R Video Buffer
Q401	27 VST2SC1213C—P	H-driver Transistor
Q402	43 VSTVN2222LL–M-	H-driver Transistor
Q403	10 VSTMJF16212—	H-def O/P Transistor
Q404	53 VST2SB1109—	Spot-killer Transistor
Q405	64 VSTIRF640—	H-lin Earity Control
Q405	37 VSTIRF640—Q-	Second Source
Q405	03 VSTIRF640—X-	Second Source
Q406	27 VST2SC1213C—P	B+ Step-up Control
Q407	78 VST2SA673C—P	B+ Step-up Control
Q408	37 VSTIRF640—Q-	Second Source
Q408	64 VSTIRF640—	B+ Stop-up Control
Q408	03 VSTIRF640—X-	Second Source
Q409	81 VST2SD669AC—	H-center Control
Q410	48 VST2SB649AC—	H-center Control
Q411	32 VST2SC945Q—P	H-line Switch
Q411	01 VST2SC1815Y—P	Second Source
Q412	01 VST2SC1815Y—P	H-line Switching
Q414	78 VST2SA673C—P	H-line Switching Control
Q415	78 VST2SA673C—P	C Switching Control
Q416	32 VST2SC945Q—P	Co Switch
Q416	01 VST2SC1815Y—P	Second Source
Q417	68 VSTMTP6N60E–M-	Co Switch Transistor
Q417	15 VSTSSP6N60A—	Second Source
Q418	64 VSTIRF640—	B+ Stop-up Control
Q418	37 VSTIRF640—Q-	Second Source
Q418	03 VSTIRF640—X-	Second Source
Q419	78 VST2SA673C—P	Cs Switching Control
Q420	01 VST2SC1815Y—P	Second Source
Q420	32 VST2SC945Q—P	Cs Switch
Q501	01 VST2SC1815Y—P	H-hold Control
Q502	01 VST2SC1815Y—P	V-hold Control
Q503	27 VST2SC1213C—P	V-center Control
Q504	30 VST2SB546A—	V-center Control
Q505	24 VST2SC458C—P	Side-pin Control
Q506	81 VST2SD669AC—	H-size & Side-pin Control
Q507	01 VST2SC1815Y—P	Mode Control
Q508	06 VST2SB861C—	H-size & Side-pin Control
Q508	15 VST2SB1085AE—	Second Source

Q509	24 VST2SC458C—P	H-size Control
Q510	79 VST2SB716D——	Side-pin & H-size Control
Q511	24 VST2SC458C—P	H-size Control
Q512	24 VST2SC458C—P	H-size Control
Q601	32 VST2SC945Q—P	Inverter
Q601	01 VST2SC1815Y—P	Second Source
Q602	01 VST2SC1815Y—P	Second Source
Q602	32 VST2SC945Q—P	Inverter
Q603	01 VST2SC1815Y—P	Mode Control
Q604	01 VST2SC1815Y—P	Mode Control
Q606	01 VST2SC1815Y—P	Mode Control
Q901	45 VST2SK1462——	Second Source
Q901	55 VSTHV82———	ON-OFF Switch Transistor
Q904	04 VST2SC458D—P	Switching Control
Q905	16 VST2SA952L—P	Switching Control

DIODE—

BD901	32 RSRCB1039D8——	Rectifier Bridge Diode
D100	30 VSD1N4148——T	Protect Diode
D101	30 VSD1N4148——T	Protect Diode
D102	30 VSD1N4148——T	Protect Diode
D103	30 VSD1N4148——T	Protect Diode
D104	30 VSD1N4148——T	Protect Diode
D106	30 VSD1N4148——T	Protect Diode
D107	30 VSD1N4148——T	Protect Diode
D110	67 VSDRGP10G——U	Rectifier Diode
D150	74 VSD1N4002——U	Protect Diode
D151	83 VSDFF1004——U	Protect Diode
D202	30 VSD1N4148——T	Protect Diode
D203	21 VSPLTA3233G——	LED
D203	30 VSD1N4148——T	Protect Diode
D203A	30 VSD1N4148——T	Protect Diode
D204	30 VSD1N4148——T	Protect Diode
D204A	30 VSD1N4148——T	Protect Diode
D205	30 VSD1N4148——T	Rectifier Diode
D207	30 VSD1N4148——T	Protect Diode
D208	30 VSD1N4148——T	Protect Diode
D209	42 VSD1SS83——T	Protect Diode
D210	42 VSD1SS83——T	Protect Diode
D232	30 VSD1N4148——T	Protect Diode
D233	30 VSD1N4148——T	Protect Diode
D233A	30 VSD1N4148——T	Protect Diode
D234	30 VSD1N4148——T	Protect Diode
D234A	30 VSD1N4148——T	Protect Diode
D235	30 VSD1N4148——T	Rectifier Diode
D237	30 VSD1N4148——T	Protect Diode
D238	30 VSD1N4148——T	Protect Diode
D239	42 VSD1SS83——T	Protect Diode
D240	42 VSD1SS83——T	Protect Diode
D262	30 VSD1N4148——T	Protect Diode
D263	30 VSD1N4148——T	Protect Diode
D263A	30 VSD1N4148——T	Protect Diode
D264	30 VSD1N4148——T	Protect Diode
D264A	30 VSD1N4148——T	Protect Diode

D265	30 VSD1N4148——T	Rectifier Diode
D267	30 VSD1N4148——T	Protect Diode
D268	30 VSD1N4148——T	Protect Diode
D269	42 VSD1SS83——T	Protect Diode
D270	42 VSD1SS83——T	Protect Diode
D401	30 VSD1N4148——T	Protect Diode
D403	01 VSDMUR115——U	Speed-up Diode
D404	63 VSDBY329———	Damper
D405	79 VSDMUR880E—M-	Damper
D406	30 VSD1N4148——T	Protect Diode
D407	30 VSD1N4148——T	Protect Diode
D408	83 VSDFF1004——U	Rectifier Diode
D409	83 VSDFF1004——U	Rectifier Diode
D410	30 VSD1N4148——T	Protect Diode
D411	83 VSDFF1004——U	Rectifier Diode
D412	83 VSDFF1004——U	Rectifier Diode
D413	39 VSDEGP30G———	Diode
D414	30 VSD1N4148——T	Protect Diode
D417	30 VSD1N4148——T	Protect Diode
D418	74 VSD1N4002——U	Protect Diode
D419	49 VSDRGP10M——U	Protect Diode
D420	30 VSD1N4148——T	Protect Diode
D421	30 VSD1N4148——T	Protect Diode
D422	30 VSD1N4148——T	Protect Diode
D423	29 VSDFF1007——U	Rectifier Diode
D424	14 VSDRGP10J——U	Rectifier Diode
D425	30 VSD1N4148——T	Protect Diode
D426	30 VSD1N4148——T	Fh Limit Diode
D426	30 VSD1N4148——T	Protect Diode
D501	30 VSD1N4148——T	Protect Diode
D502	03 VSD1N4001——U	Protect Piode
D504	30 VSD1N4148——T	Protect Diode
D504A	30 VSD1N4148——T	Protect Diode
D505	30 VSD1N4148——T	Protect Diode
D602	30 VSD1N4148——T	Protect Diode
D603	30 VSD1N4148——T	Protect Diode
D606	30 VSD1N4148——T	Protect Diode
D607	30 VSD1N4148——T	Protect Diode
D611	74 VSD1N4002——U	Protect Diode
D901	81 VSDRU2B———	Clamp Diode
D902	52 VSDBYV95A——U	Rectifier Diode
D903	30 VSD1N4148——T	Clamp Diode
D904	30 VSD1N4148——T	Clamp Diode
D905	30 VSD1N4148——T	Clamp Diode
D906	30 VSD1N4148——T	Clamp Diode
D907	20 VSD1N4005——U	Protect Diode
D951	87 VSDRG4———	Rectifier Diode
D952	87 VSDRG4———	Rectifier Diode
D953	26 VSDRG4Z———	Rectifier Diode
D954	51 VSDRK46———	Rectifier Diode
D955	30 VSD1N4148——T	Clamp Diode
SR901	71 VSSMCR100-4——	H.V Protect.
ZD101	58 VSZRD3.3EB2—T	Zener 3.3V 0.5W
ZD102	67 VSZHZ36-1———	Zener 36V 0.5W

ZD150	65 VSZHZ7B2——T	Zener 7V, 0.5W
ZD150A	65 VSZHZ7B2——T	Zener 7V, 0.5W
ZD151	19 VSZRD11EB3—T	Zener 11V 0.4W
ZD201	06 VSZMA4300HTA-6T	Zener 30V 0.4W
ZD231	06 VSZMA4300HTA-6T	Zener 30V 0.4W
ZD261	06 VSZMA4300HTA-6T	Zener 30V 0.4W
ZD403	34 VSZRD24EB4—T	Zener 24V 0.4W
ZD405	60 VSZRD6.2EB1—T	Zener 6.2V 0.4W
ZD406	25 VSZRD12EB2—T	Zener 12V 0.5W
ZD415	25 VSZRD12EB2—T	Zener 12V 0.5W
ZD416	66 VSZRD5.1EB2—T	Zener 5.1V 0.4W
ZD501	67 VSZRD7.5EB2—T	Zener 7.5V 0.4W
ZD901	33 VSZRD22EB1—T	Zener 22V, 0.4W
ZD904	55 VSZ1N5245B—T	Zener
ZD905	55 VSZ1N5245B—T	Zener
ZD907	15 VSZRD20EB1—T	Zener 20V, 0.5W

CAPACITOR—

C103	71 VCKFDU1HY223Z-P	.022 uF, 50V, +80%-20%, Ceramic
C104	71 VCKFDU1HY223Z-P	.022 uF, 50V, +80%-20%, Ceramic
C105	62 VCDSDU1HL330J-P	33 pF, 50V, 5%, Ceramic
C106	06 VCDSDU1HL331J-P	33 pF, 50V, 5%, Ceramic
C107	12 VCEACU1HG104M-P	.1 uF, 50V, 20%, Electrolytic
C108	44 VCKBDU1HY102K-P	.001 uF, 50V, 10%, Ceramic
C109	45 VCKBDU1HY472K-P	.0047 uF, 50V, 10%, Ceramic
C110	73 VCEACU2EY474Y-P	.47 uF, 250V, Electrolytic
C111	06 VCKBDU2HY271K-P	270 pF, 500V, 10%, Ceramic
C113	87 VCEACU2AG475M-P	4.7 uF, 100V, 20%, Electrolytic
C114	30 VCKBDU2HY102K-P	1000 pF, 500V, 10%, Ceramic
C118	71 VCKFDU1HY223Z-P	.022 uF, 50V, +80%-20%, Ceramic
C119	22 VCEACU2AG474M-P	.47 uF, 100V, 20%, Electrolytic
C120	60 VCPELU1HG104J-P	.1 uF, 50V, 5%, Polyester
C121	12 VCEACU1EG106M-P	10 uF, 25V, 20%, Electrolytic
C150	13 VCEACU1HG474M-P	.47 uF, 50V, 20%, Electrolytic
C151	59 VCEACU1HH105M-P	1 uF, 50V, 20%, Electrolytic
C152	54 VCEACU1HG476M-P	47 uF, 50V, 20%, Electrolytic
C153	59 VCEACF1HH107M—	100 uF, 50V, 20%, Electrolytic
C154	66 VCEACU1EH107MIP	100 uF, 25V, 20%, Electrolytic
C155	09 VCEACF1EG227M—	220 uF, 25V, 20%, Electrolytic
C156	71 VCKFDU1HY223Z-P	.022 uF, 50V, +80%-20%, Ceramic
C157	59 VCEACF1HH107M—	100 uF, 50V, 20%, Electrolytic
C158	69 VCEACF1CG477M—	470 uF, 16V, 20%, Electrolytic
C158A	09 VCKFDU1HY103Z-P	.01 uF, 50V, +80%-20%, Ceramic
C159	86 VCEACF2AG107M—	100 uF, 100V, 20%, Electrolytic
C159A	64 VCKFDF2EY223Z—	.022 uF, 250V, +80%, -20%, Ceramic
C160	53 VCKBEF3DY101K—	100 pF, 2KV, 10%, Ceramic
C161	29 VCKBEF3DY102K—	.001 uF, 2KV, 10%, Ceramic
C162	75 VCMEHF2EG104K—	.1 uF, 250V, 10%, Meta. Polyester
C201	79 VCSFDU1HY104Z-P	.1 uF, 50V, +80%-20%, Ceramic
C203	10 VCKFDU1HY473Z-P	.047 uF, 50V, +80%-20%, Ceramic
C204	71 VCKFDU1HY223Z-P	.022 uF, 50V, +80%-20%, Ceramic
C204A	45 VCEACU1CG476M-P	47 uF, 16V, 20%, Electrolytic
C205	45 VCDSDU1HL560J-P	56 pF, 50V, 5%, Ceramic
C206	46 VCKBDU2HY152K-P	1500 pF, 500V, 10%, Ceramic

C207	17 VCEACU2AG335M-P	3.3 uF, 100V, 20%, Electrolytic
C208	17 VCEACU2AG335M-P	3.3 uF, 100V, 20%, Electrolytic
C231	79 VCSFDU1HY104Z-P	.1 uF, 50V, +80%-20%, Ceramic
C233	10 VCKFDU1HY473Z-P	.047 uF, 50V, +80%-20%, Ceramic
C234	71 VCKFDU1HY223Z-P	.022 uF, 50V, +80%-20%, Ceramic
C234A	45 VCEACU1CG476M-P	47 uF, 16V, 20%, Electrolytic
C235	62 VCDSDU1HL330J-P	33 ohm, 50V, 5%, Ceramic
C236	46 VCKBDU2HY152K-P	1500 pF, 500V, 10%, Ceramic
C237	17 VCEACU2AG335M-P	3.3 uF, 100V, 20%, Electrolytic
C238	17 VCEACU2AG335M-P	3.3 uF, 100V, 20%, Electrolytic
C261	79 VCSFDU1HY104Z-P	.1 uF, 50V, +80%-20%, Ceramic
C263	10 VCKFDU1HY473Z-P	.047 uF, 50V, +80%-20%, Ceramic
C264	71 VCKFDU1HY223Z-P	.022 uF, 50V, +80%-20%, Ceramic
C264A	45 VCEACU1CG476M-P	47 uF, 16V, 20%, Electrolytic
C265	83 VCDSDU1HL270J-P	27 pF, 50V, 5%, Ceramic
C266	46 VCKBDU2HY152K-P	1500 pF, 500V, 10%, Ceramic
C267	17 VCEACU2AG335M-P	3.3 uF, 100V, 20%, Electrolytic
C268	17 VCEACU2AG335M-P	3.3 uF, 100V, 20%, Electrolytic
C270	27 VCKEEF3DY472Z–	.0047 uF, 2KV, +80%, -20%, Ceramic
C271	44 VCKBDU1HY102K-P	.001 uF, 50V, 10%, Ceramic
C401	12 VCEACU1EG106M-P	10 uF, 25V, 20%, Electrolytic
C402	26 VCPSEF1HG182J–	1800 pF, 50V, 5%, Polystyrene
C403	50 VCEACU1HG225M-P	2.2 uF, 50V, 20%, Electrolytic
C404	50 VCEACU1HG225M-P	2.2 uF, 50V, 20%, Electrolytic
C405	55 VCKBDU2HY471K-P	470 pF, 500V, 10%, Ceramic
C406	20 VCPEHF1HG223K–	.022 uF, 50V, 10%, Polyester
C407	54 VCEACU1HG476M-P	47 uF, 50V, 20%, Electrolytic
C408	75 VCMEHF2EG104K–	.1 uF, 250V, 10%, Meta. Polyester
C409	02 VCPPHF2JG563J–	.056 uF, 630V, 5%, Polypropylene
C410	51 VCPPHF2JG682J–	6800 pF, 630V, 5%, Polypropylene
C411	29 VCKBEF3DY102K–	1000 pF, 2KV, 10%, Ceramic
C412	29 VCKBEF3DY102K–	1000 pF, 2KV, 10%, Ceramic
C413	78 VCMPHX2EG105J–	1 uF, 250V, 5%, Meta. P.P.
C414	30 VCMPHT2EG125J–	1.2 uF, 250V, 5%, Meta PP.
C415	85 VCPELU1HG473J-P	.047 uF, 50V, 5%, Polyester
C416	78 VCMPHX2EG105J–	1 uF, 250V, 5%, Meta. P.P.
C417	72 VCEACF2EY106Y–	10 uF, 250V, Electrolytic
C418	62 VCEACU2A6106M-P	10 uF, 100V, 20%, Electrolytic
C419	78 VCEACU1HG475M-P	4.7 uF, 50V, 20%, Electrolytic
C420	45 VCEACF2EY226Y–	22 uF, 250V, 20%, Electrolytic
C421	42 VCMECF1JG105J–	1 uF, 63V, 5%, Met.
C422	64 VCKBDU1HY332K-P	3300 pF, 50V, 10%, Ceramic
C423	84 VCPELU1HG103J-P	.01 uF, 50V, 5%, Polyester
C424	84 VCPELU1HG103J-P	.01 uF, 50V, 5%, Polyester
C425	67 VCEACF1VG477M–	470 uF, 35V, 20%, Electrolytic
C426	88 VCKBDU1HY331K-P	330 pF, 50V, 10%, Ceramic
C427	57 VCPELU1HG223J-P	.022 uF, 50V, 5%, Polyester
C428	86 VCEACF2AG107M–	100 uF, 100V, 20%, Electrolytic
C430	64 VCEACU1EH107M–	100 uF, 25V, 20%, Electrolytic
C431	64 VCEACU1EH107M–	100 uF, 25V, 20%, Electrolytic
C432	35 VCEACU1HG106M-P	10 uF, 50V, 20%, Electrolytic
C433	60 VCPELU1HG104J-P	.1 uF, 50V, 5%, Polyester
C434	13 VCEACU1HG474M-P	.47 uF, 50V, 20%, Electrolytic
C435	32 VCEACU1EG336M-P	33 uF, 25V, 20%, Electrolytic

C437	04 VCMEQT2AG105K–	1 uF, 100V, 10%, Meta. Polyester
C438	08 VCEACF1HG337M–	330 uF, 50V, 20%, Electrolytic
C439	09 VCKFDU1HY103Z-P	.01 uF, 50V, 20%, Ceramic
C440	20 VCKBDU1HY271K-P	270 pF, 50V, 10%, Ceramic
C441	82 VCPPHF3CG822J–	8200 pF, 1.6KV, 5%, Polypropylene
C443	47 VCPEHF1HG103K–	.01 uF, 50V, 10%, Polyester
C444	74 VCPEHF1HG473J–	.047 uF, 50V, 5%, Polyester
C445	75 VCMPHX2EG224J–	2.2 uF, 250V, 5%, Meta. P.P.
C446	09 VCKFDU1HY103Z-P	.01 uF, 50V, 20%, Ceramic
C447	85 VCPELU1HG473J-P	.047 uF, 50V, 5%, Polyester
C501	43 VCDSDU1HL470J-P	47 pF, 50V, 5%, Ceramic
C502	57 VCPELU1HG223J-P	.022 uF, 50V, 5%, Polyester
C503	84 VCPELU1HG103J-P	.01 uF, 50V, 5%, Polyester
C504	77 VCEACU1HG105M-P	1 uF, 50V, 20%, Electrolytic
C505	60 VCPELU1HG104J-P	.1 uF, 50V, 5%, Polyester
C506	84 VCPELU1HG103J-P	.01 uF, 50V, 5%, Polyester
C507	66 VCEACF1VG107M–	100 uF, 35V, 20%, Electrolytic
C508	67 VCEACF1VG477M–	470 uF, 35V, 20%, Electrolytic
C509	84 VCPELU1HG103J-P	.01 uF, 50V, 5%, Polyester
C510	50 VCEACF1HG227M–	220 uF, 50V, 20%, Electrolytic
C511	04 VCEACF1VH228MI-	2200 uF, 35V, 20%, Electrolytic
C512	84 VCPELU1HG103J-P	.01 uF, 50V, 5%, Polyester
C513	85 VCPEHF1HG224K–	.22 uF, 50V, 10%, Polyester
C514	04 VCEACF1VH228MI-	2200 uF, 35V, 20%, Electrolytic
C515	74 VCEACU1EG226M-P	22 uF, 35V, 20%, Electrolytic
C516	53 VCEACU1HG106M-P	10 uF, 50V, 20%, Electrolytic
C517	77 VCEACU1HG105M-P	1 uF, 50V, 20%, Electrolytic
C518	20 VCPELF1HG474J–	.47 uF, 50V, 5%, Polyester
C519	73 VCPSEF1HG102G–	1000 pF, 50V, 2%, Polystyrene
C520	77 VCEACU1HG105M-P	1 uF, 50V, 20%, Electrolytic
C521	50 VCEACU1HG225M-P	2.2 uF, 50V, 20%, Electrolytic
C523	35 VCEACU1HG106M-P	10 uF, 50V, 20%, Electrolytic
C525	77 VCEACU1EG107M-P	100 uF, 25V, 20%, Electrolytic
C526	35 VCEACU1HG106M-P	10 uF, 50V, 20%, Electrolytic
C527	84 VCPELU1HG103J-P	.01 uF, 50V, 5%, Polyester
C528	53 VCEACU1HG106M-P	10 uF, 50V, 20%, Electrolytic
C529	60 VCPELU1HG104J-P	.1 uF, 50V, 5%, Polyester
C530	77 VCEACU1HG105M-P	1 uF, 50V, 20%, Electrolytic
C531	20 VCPELU1HG472J-P	4700 pF, 50V, 5%, Polyester
C532	20 VCPELU1HG472J-P	4700 pF, 50V, 5%, Polyester
C533	77 VCEACU1HG105M-P	1 uF, 50V, 20%, Electrolytic
C534	77 VCEACU1HG105M-P	1 uF, 50V, 20%, Electrolytic
C535	44 VCKBDU1HY102K-P	.001 uF, 50V, 20%, Ceramic
C536	44 VCKBDU1HY102K-P	.001 uF, 50V, 20%, Ceramic
C537	04 VCMEQT2AG105K–	1 uF, 100V, 10%, Meta. Polyester
C538	04 VCPSEF1HG332G–	.0032 uF, 50V, 2%, Polystyrene
C539	77 VCEACU1HG105M-P	1 uF, 50V, 20%, Electrolytic
C540	43 VCDSDU1HL470J-P	47 pF, 50V, 5%, Ceramic
C541	54 VCKBDU2HY101K-P	100 pF, 500V, 10%, Ceramic
C542	60 VCKBDU1HY152K-P	1500 pF, 50V, 10%, Ceramic
C543	46 VCKBDU2HY152K-P	1500 pF, 500V, 10%, Ceramic
C545	55 VCKBDU2HY471K-P	470 pF, 500V, 10%, Ceramic
C601	12 VCEACU1EG106M-P	10 uF, 25V, 20%, Electrolytic
C602	12 VCEACU1EG106M-P	10 uF, 25V, 20%, Electrolytic

C603	02 VCDSDU1HL151J-P	150 pF, 50V, 5%, Ceramic
C604	73 VCPSEF1HG102G–	1000 pF, 50V, 2%, Polystyrene
C605	16 VCEACU1HG685M-P	6.8 uF, 50V, 20%, Electrolytic
C606	50 VCEACU1HG225M-P	2.2 uF, 50V, 20%, Electrolytic
C607	60 VCPELU1HG104J-P	.1 uF, 50V, 5%, Polyester
C608	84 VCPELU1HG103J-P	.01 uF, 50V, 5%, Polyester
C610	60 VCPELU1HG104J-P	.1 uF, 50V, 5%, Polyester
C611	50 VCEACU1HG225M-P	2.2 uF, 50V, 20%, Electrolytic
C612	13 VCEACU1HG474M-P	.47uF, 50V, 20%, Electrolytic
C614	84 VCPELU1HG103J-P	.01 uF, 50V, 5%, Polyester
C614A	13 VCEACU1HG474M-P	.47 uF, 50V, 20%, Electrolytic
C616	12 VCEACU1EG106M-P	10 uF, 25V, 20%, Electrolytic
C617	53 VCEACU1HG106M-P	10 uF, 50V, 20%, Electrolytic
C618	44 VCKBDU1HY102K-P	.001 uF, 50V, 20%, Ceramic
C619	71 VCKFDU1HY223Z-P	.022 uF, 50V, +80%-20%, Ceramic
C621	79 VCSFDU1HY104Z-P	.1 uF, 50V, +80%-20%, Ceramic
C622	79 VCSFDU1HY104Z-P	.1 uF, 50V, +80%-20%, Ceramic
C623	79 VCSFDU1HY104Z-P	.1 uF, 50V, +80%-20%, Ceramic
C624	79 VCSFDU1HY104Z-P	.1 uF, 50V, +80%-20%, Ceramic
C901	12 RC-MZ105KD87ER-	1 uf, 250V, 20%, X2 Capaciter
C902	26 VCMEBU7EG224MX1	.22 uF, 250V, 20%, Meta. Polyester
C903	07 RC-EZ1002D8—	220 uF, 250V, 20%, Electrolytic
C903A	07 RC-EZ1002D8—	220 uF, 250V, 20%, Electrolytic
C904	48 VCKEEF3TY103Z–	.01 uF, 1.5KV, +80%, -20%, Ceramic
C905	20 VCKBDU1HY103K-P	.01 uF, 50V, 10%, Ceramic
C906	40 VCEACU1EG686M-P	68 uF, 25V, 20%, Electrolytic
C907	54 VCKBEF3DY471K–	470 pF, 2KV, 10%, Ceramic
C910	74 VCPSEF1HG472G–	.0047 uF, 50V, 2%, Polystyrene
C911	20 VCKBDU1HY103K-P	.01 uF, 50V, 10%, Ceramic
C912	44 VCKBDU1HY102K-P	1000 pF, 50V, 10%, Ceramic
C913	44 VCKBDU1HY102K-P	1000 pF, 50V, 10%, Ceramic
C914	35 VCEACU1HH106M-P	10 uF, 50V, 20%, Electrolytic
C915	62 VCKFDU7BY222MX3	2200 pF, 125V, 20%, Ceramic
C916	62 VCKFDU7BY222MX3	2200 pF, 125V, 20%, Ceramic
C917	79 VCSFDU1HY104Z-P	.1 uF, 50V, +80%-20%, Ceramic
C918	31 VCEACF2WY335M–	3.3 uF, 450V, 20%, Electrolytic
C919	66 VCEACU1EH107MIP	100 uF, 25V, 20%, Electrolytic
C920	26 VCPPHF2DG473J–	.047 uF, 200V, 5%, Polypropylene
C921	20 VCKBDU1HY103K-P	.01 uF, 50V, 10%, Ceramic
C922	30 VCKBDU2HY102K-P	1000 pF, 500V, 10%, Ceramic
C927	42 VCKFEF3AY103Z–	.01 uF, 1KV, +80%, -20%, Ceramic
C928	53 VCEACU1HG106M-P	10 uF, 50V, 20%, Electrolytic
C951	16 VCEACF2CH227MI-	220 uF, 160V, 20%, Electrolytic
C952	25 VCEACF2AG687M–	680 uF, 100V, 20%, Electrolytic
C953	04 VCEACF1VH228MI-	2200 uF, 35V, 20%, Electrolytic
C954	20 RC-EZ228MD81CX-	2200 uF, 16V, 20%, Meta. P.P.
C956	13 VCEACU1HG474M-P	.47 uF, 50V, 20%, Electrolytic
C957	03 VCKBDU2HY222K-P	2200 pF, 500V, 10%, Ceramic
C522	66 VCEACF1VG107M–	100 uF, 35V, 20%, Electrolytic
R914	03 VRLLK02–R36J–	.36 ohm, 2W, 5%, Wire-Wound Fixed

RESISTOR—

R103	23 VRMPTV6–302J-T	3K ohm, 1/6W, 5%, Metal Film
R105	87 VRMPTV6–101J-T	100 ohm, 1/6W, 5%, Metal Film

R106	63 VRMPTV6--513J-T	51K ohm, 1/6W, 5%, Metal Film
R107	15 VRMPTV6--104J-T	100K ohm, 1/6W, 5%, Metal Film
R108	26 VRMPTV4--101J-T	100 ohm, 1/4W, 5%, Metal Film
R109	19 VRMPTV6--203J-T	20K ohm, 1/6W, 5%, Metal Film
R110	24 VRMPTV6--753J-T	75K ohm, 1/6W, 5%, Metal Film
R111	39 VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R112	24 VRMPTV6--753J-T	75K ohm, 1/6W, 5%, Metal Film
R113	24 VRMPTV6--753J-T	75K ohm, 1/6W, 5%, Metal FILM
R114	84 VRMPTV6--204J-T	200K ohm, 1/6W, 5%, Metal Film
R115	39 VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R116	63 VRMPTV6--102J-T	1K ohm, 1/6W, 5%, Metal Film
R117	87 VRMPTV6--512J-T	5.1K ohm, 1/6W, 5%, Metal Film
R118	63 VRMPTV6--102J-T	1K ohm, 1/6W, 5%, Metal Film
R119	39 VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R120	87 VRMPTV6--512J-T	5.1K ohm, 1/6W, 5%, Metal Film
R121	63 VRMPTV6--102J-T	1K ohm, 1/6W, 5%, Metal Film
R122	39 VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R123	63 VRMPTV6--513J-T	51K ohm, 1/6W, 5%, Metal Film
R124	39 VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R126	39 VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R127	39 VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R128	87 VRMPTV6--512J-T	5.1K ohm, 1/6W, 5%, Metal Film
R129	39 VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R130	87 VRMPTV6--512J-T	5.1K ohm, 1/6W, 5%, Metal Film
R131	19 VRMPTV6--203J-T	20K ohm, 1/6W, 5%, Metal Film
R132	02 VRMPTV6--682J-T	6.8K ohm, 1/6W, 5%, Metal Film
R133	77 VRMPTV6--224J-T	220K ohm, 1/6W, 6%, Metal Film
R134	56 VRMPTV6--122J-T	1.2K ohm, 1/6W, 5%, Metal Film
R135	43 VRMPTV6--202J-T	2K ohm, 1/6W, 5%, Metal Film
R136	27 VRMPTV4--303J-T	30K ohm, 1/4W, 5%, Metal Film
R137	28 VRCMTV2--562J-U	5.6K ohm, 1/2W, 5%, Carbon Film
R138	87 VRMPTV6--512J-T	5.1K ohm, 1/6W, 5%, Metal Film
R139	39 VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R141	33 VRMPTV6--822J-T	8.2K ohm, 1/6W, 6%, Metal Film
R142	14 VRMPTV6--151J-T	150 ohm, 1/6W, 5%, Metal Film
R146	23 VRMPTV6--302J-T	3K ohm, 1/6W, 5%, Metal Film
R148	87 VRMPTV6--101J-T	100 ohm, 1/6W, 5%, Metal Film
R151	63 VRMPTV6--102J-T	1K ohm, 1/6W, 5%, Metal Film
R152	40 VRMPTV6--473J-T	47K ohm, 1/6W, 5%, Metal Film
R153	39 VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R154	66 VRMPTV6--562J-T	5.6K ohm, 1/6W, 5%, Metal Film
R155	32 VRMPTV6--234J-T	23K ohm, 1/6W, 5%, Metal Film
R157	63 VRMPTV6--102J-T	1K ohm, 1/6W, 5%, Metal Film
R158	87 VRMPTV6--512J-T	5.1K ohm, 1/6W, 5%, Metal Film
R159	40 VRMPTV6--473J-T	47K ohm, 1/6W, 5%, Metal Film
R160	55 VRNMK03--180J--	18 ohm, 3W, 5% Metal Oxide Film
R160A	55 VRNMK03--180J--	18 ohm, 3W, 5% Metal Oxide Film
R162	46 VRMPTV4--331J-T	330 ohm, 1/4W, 5%, Metal Film
R163	41 VRSPTV2--101J-U	100 ohm, 1/2W, 5%, C.C
R164	61 VRSPTV2--564J-U	560K ohm, 1/2W, 5%, C.C.
R165	48 VRMPTV6--752J-T	7.5K ohm, 1/6W, 5%, Meatl Film
R166	25 VRCMTV2--102J-U	1K ohm, 1/2W, 5%, Carbon Film
R167	32 VRCMTV2--823J-U	82K ohm, 1/2W, 5%, Carbon Film
R168	17 VRMPTV6--362J-T	3.6K ohm, 1/6W, 5%, Metal Film

R169	03 VRMPTV4–391J-T	390 ohm, 1/4W, 5%, Metal Film
R170	39 VRMPTV6–750J-T	75 ohm, 1/6W, 5%, Metal Film
R171	43 VRMPTV6–202J-T	2K ohm, 1/6W, 5%, Metal Film
R172	18 VRMPTV6–331J-T	330 ohm, 1/6W, 5%, Metal Film
R173	39 VRMPTV6–103J-T	10K ohm, 1/6W, 5%, Metal Film
R174	39 VRMPTV6–103J-T	10K ohm, 1/6W, 5%, Metal Film
R175	87 VRMPTV6–101J-T	100 ohm, 1/6W, 5%, Metal Film
R176	63 VRMPTV6–102J-T	1K ohm, 1/6W, 5%, Metal Film
R177	32 VRMPTV6–123J-T	12K ohm, 1/6W, 5%, Metal Film
R178	45 VRMPTV6–622J-T	6.2K ohm, 1/6W, 5%, Metal Film
R179	67 VRMPTV6–201J-T	200 ohm, 1/6W, 5%, Metal Film
R180	87 VRMPTV6–512J-T	5.1K ohm, 1/6W, 5%, Metal Film
R181	79 VRMPTV6–152J-T	1.5K ohm, 1/6W, 5%, Metal Film
R182	63 VRMPTV6–513J-T	51K ohm, 1/6W, 5%, Metal Film
R183	87 VRMPTV6–101J-T	100 ohm, 1/6W, 5%, Metal Film
R184	67 VRMPTV6–201J-T	200 ohm, 1/6W, 5%, Metal Film
R201	67 VRMPTV4–750J-T	75 ohm, 1/4W, 5%, Metal Film
R202	55 VRMPTV6–470J-T	47 ohm, 1/6W, 5%, Metal Film
R203	27 VRMPTV6–220J-T	22 ohm, 1/6W, 5%, Metal Film
R205	54 VRMPTV6–100J-U	10 ohm, 1/6W, 5%, Metal Film
R206	55 VRMPTV6–470J-T	47 ohm, 1/6W, 5%, Metal Film
R207	27 VRMPTV6–220J-T	22 ohm, 1/6W, 5%, Metal Film
R207A	88 VRMPTV6–471J-T	470 ohm, 1/6W, 5%, Metal Film
R208	78 VRNMT05–122J–	1.2K ohm, 5W, 5%, Metal Oxide Film
R208A	78 VRNMT05–122J–	1.2K ohm, 5W, 5%, Metal Oxide Film
R209	87 VRMPTV6–512J-T	5.1K ohm, 1/6W, 5%, Metal Film
R209B	88 VRMPTV6–471J-T	470 ohm, 1/6W, 5%, Metal Film
R210	14 VRMPTV6–151J-T	150 ohm, 1/6W, 5%, Metal Film
R211	82 VRCMTV2–390J-U	39 ohm, 1/2W, 5%, Carbon Film
R211A	88 VRMPTV6–471J-T	470 ohm, 1/6W, 5%, Metal Film
R212	83 VRMPTV4–470J-T	47 ohm, 1/4W, 5%, Metal Film
R213	83 VRMPTV4–470J-T	47 ohm, 1/4W, 5%, Metal Film
R214	83 VRCMTV2–123J-U	12K ohm, 1/2W, 5%, Carbon Film
R216	41 VRSPTV2–101J-U	100 ohm, 1/2W, 5%, C.C
R231	67 VRMPTV4–750J-T	75 ohm, 1/4W, 5%, Metal Film
R232	55 VRMPTV6–470J-T	47 ohm, 1/6W, 5%, Metal Film
R233	27 VRMPTV6–220J-T	22 ohm, 1/6W, 5%, Metal Film
R235	54 VRMPTV6–100J-U	10 ohm, 1/6W, 5%, Metal Film
R236	55 VRMPTV6–470J-T	47 ohm, 1/6W, 5%, Metal Film
R237	27 VRMPTV6–220J-T	22 ohm, 1/6W, 5%, Metal Film
R237A	88 VRMPTV6–471J-T	470 ohm, 1/6W, 5%, Metal Film
R238	79 VRNMT05–122J–	1.2K ohm, 5W, 5%, Metal Oxide Film
R238A	79 VRNMT05–122J–	1.2K ohm, 5W, 5%, Metal Oxide Film
R239	79 VRMPTV6–152J-T	1.5K ohm, 1/6W, 5%, Metal Film
R240	14 VRMPTV6–151J-T	150 ohm, 1/6W, 5%, Metal Film
R241	82 VRCMTV2–390J-U	39 ohm, 1/2W, 5%, Carbon Film
R241A	88 VRMPTV6–471J-T	470 ohm, 1/6W, 5%, Metal Film
R242	83 VRMPTV4–470J-T	47 ohm, 1/4W, 5%, Metal Film
R243	83 VRMPTV4–470J-T	47 ohm, 1/4W, 5%, Metal Film
R244	83 VRCMTV2–123J-U	12K ohm, 1/2W, 5%, Carbon Film
R246	41 VRSPTV2–101J-U	100 ohm, 1/2W, 5%, C.C
R261	67 VRMPTV4–750J-T	75 ohm, 1/4W, 5%, Metal Film
R262	55 VRMPTV6–470J-T	47 ohm, 1/6W, 5%, Metal Film
R263	27 VRMPTV6–220J-T	22 ohm, 1/6W, 5%, Metal Film-

R265	54 VRMPTV6–100J-U	10 ohm, 1/6W, 5%, Metal Film
R266	55 VRMPTV6–470J-T	47 ohm, 1/6W, 5%, Metal Film
R267	27 VRMPTV6–220J-T	22 ohm, 1/6W, 5%, Metal Film
R267A	88 VRMPTV6–471J-T	470 ohm, 1/6W, 5%, Metal Film
R268	78 VRNMT05–122J–	1.2K ohm, 5W, 5%, Metal Oxide Film
R268A	78 VRNMT05–122J–	1.2K ohm, 5W, 5%, Metal Oxide Film
R269	79 VRMPTV6–152J-T	1.5K ohm, 1/6W, 5%, Metal Film
R270	14 VRMPTV6–151J-T	150 ohm, 1/6W, 5%, Metal Film
R271	82 VRCMTV2–390J-U	39 ohm, 1/2W, 5%, Carbon Film
R271A	88 VRMPTV6–471J-T	470 ohm, 1/6W, 5%, Metal Film
R272	83 VRMPTV4–470J-T	47 ohm, 1/4W, 5%, Metal Film
R273	83 VRMPTV4–470J-T	47 ohm, 1/4W, 5%, Metal Film
R274	83 VRCMTV2–123J-U	12K ohm, 1/2W, 5%, Carbon Film
R276	41 VRSPTV2–101J-U	100 ohm, 1/2W, 5%, C.C
R401	64 VRMPTV6–472J-T	4.7K ohm, 1/6W, 5%, Metal Film
R402	82 VRMPTV4–100J-T	10 ohm, 1/4W, 5%, Metal Film
D402	03 VRMPTV4–472J-T	4.7K ohm, 1/4W, 5%, Metal Film
R404	64 VRMPTV6–472J-T	4.7K ohm, 1/6W, 5%, Metal Film
R405	40 VRMPTV6–392J-T	3.9K ohm, 1/6W, 5%, Metal Film
R406	12 VRMPTV6–223J-T	22K ohm, 1/6W, 5%, Metal Film
R407	03 VRMPTV4–472J-T	4.7K ohm, 1/4W, 5%, Metal Film
R409	50 VRCMTV2–471J-U	470 ohm, 1/2W, 5%, Metal Film
R410	45 VRNMK01–470J–	47 ohm, 1W, 5%, Metal Oxide Film
R411	58 VRNMK02–R82J–	.82 ohm, 2W, 5%, Metal Oxide Film
R412	78 VRCMTV2–220J-U	22 ohm, 1/2W, 5%, Meter Film
R413	75 VRMPTV4–301J-T	300 ohm, 1/4W, 5%, Metal Film
R414	75 VRMPTV4–301J-T	300 ohm, 1/4W, 5%, Metal Film
R415	16 VRCMTV2–100J-U	100 ohm, 1/2W, 5%, Metal Film
R416	67 VRMPTV4–103J-T	10K ohm, 1/4W, 5%, Metal Film
R418	83 VRNMK02–331J–	330 ohm, 2W, 5%, Metal Oxide Film
R419	83 VRNMK02–331J–	330 ohm, 2W, 5%, Metal Oxide Film
R421	68 VRMPTV4–392J-T	3.9K ohm, 1/4W, 5%, Metal Film
R422	82 VRMPTV4–100J-T	100 ohm, 1/4W, 5%, Metal Film
R423	39 VRMPTV6–103J-T	10K ohm, 1/6W, 5%, Metal Film
R424	36 VRMPTV6–222J-T	2.2K ohm, 1/6W, 5%, Metal Film
R425	12 VRMPTV6–223J-T	22K ohm, 1/6W, 5%, Metal Film
R426	64 VRMPTV6–472J-T	4.7K ohm, 1/6W, 5%, Metal Film
R427	26 VRMPTV4–512J-T	5.1K ohm, 1/4W, 5%, Metal Film
R428	80 VRMPTV6–273J-T	27K ohm, 1/6W, 5%, Metal Film
R429	21 VRMPTV6–623J-T	62K ohm, 1/6W, 5%, Metal Film
R433	40 VRMPTV6–473J-T	47K ohm, 1/6W, 5%, Metal Film
R434	39 VRMPTV6–103J-T	10K ohm, 1/6W, 5%, Metal Film
R435	43 VRMPTV4–104J-T	100K ohm, 1/4W, 5%, Metal Film
R436	32 VRMPTV6–123J-T	12K ohm, 1/6W, 5%, Metal Film
R438	48 VRMPTV6-3002F-T	30K ohm, 1/6W, 1%, Metal Film
R439	15 VRMPTV6–104J-T	100K ohm, 1/6W, 5%, Metal Film
R440	80 VRMPTV6–105J-T	100K ohm, 1/6W, 5%, Metal Film
R441	05 VRMPTV6–822J-T	8.2K ohm, 1/6W, 5%, Metal Film
R442	42 VRMPTV6–563J-T	56K ohm, 1/6W, 5%, Metal Film
R443	39 VRMPTV6–103J-T	10K ohm, 1/6W, 5%, Metal Film
R444	39 VRMPTV6–103J-T	10K ohm, 1/6W, 5%, Metal Film
R445	55 VRMPTV6–153J-T	15K ohm, 1/6W, 5%, Metal Film
R446	43 VRMPTV6–202J-T	2K ohm, 1/6W, 5%, Metal Film
R447	05 VRMPTV4–562J-T	5.6K ohm, 1/4W, 5%, Metal Film

R448	44 VRNMK01--100J--	10 ohm, 1W, 5%, Metal Oxide Film
R451	05 VRMPTV6-3302F-T	33K ohm, 1/6W, 1%, Metal Film
R452	01 VRMPTV6-2001F-T	2K ohm, 1/6W, 1%, Metal Film
R453	48 VRMPTV6-3002F-T	30K ohm, 1/6W, 1%, Metal Film
R454	19 VRMPTV6-1001F-T	1K ohm, 1/6W, 1%, Metal Film
R455	05 VRMPTV4--562J-T	5.6K ohm, 1/4W, 5%, Metal Film
R456	12 VRMPTV6--223J-T	22K ohm, 1/6W, 5%, Metal Film
R457	40 VRMPTV6--392J-T	3.9K ohm, 1/6W, 5%, Metal Film
R458	12 VRMPTV6--223J-T	22K ohm, 1/6W, 5%, Metal Film
R459	13 VRMPTV6--182J-T	1.8K ohm, 1/6W, 5%, Metal Film
R460	42 VRCMTV2--105J-U	1M 1/2W, 5%, Metal Film
R461	42 VRMPTV6--563J-T	56K ohm, 1/6W, 5%, Metal Film
R462	50 VRMPTV6-9101F-T	9.1K ohm, 1/6W, 1%, Metal Film
R465	55 VRMPTV6--153J-T	15K ohm, 1/6W, 5%, Metal Film
R466	88 VRMPTV6--471J-T	470 ohm, 1/6W, 5%, Metal Film
R467	83 VRMPTV6--332J-T	3.3K ohm, 1/6W, 5%, Metal Film
R468	39 VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R470	87 VRMPTV6-3901F-T	3.9K ohm, 1/6W, 1%, Metal Film
R471	29 VRCMTV2--683J-U	68K ohm, 1/2W, 5%, Carbon Film
R472	36 VRMPTV6--222J-T	2.2K ohm, 1/6W, 5%, Metal Film
R473	12 VRMPTV6--223J-T	22K ohm, 1/6W, 5%, Metal Film
R474	64 VRMPTV6--472J-T	4.7K ohm, 1/6W, 5%, Metal Film
R475	12 VRMPTV6--223J-T	22K ohm, 1/6W, 5%, Metal Film
R476	39 VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R477	66 VRMPTV6--562J-T	5.6K ohm, 1/6W, 5%, Metal Film
R478	40 VRMPTV6--392J-T	3.9K ohm, 1/6W, 5%, Metal Film
R479	54 VRMPTV6--100J-T	10 ohm, 1/6W, 5%, Metal Film
R480	68 VRMPTV4--392J-T	3.9K ohm, 1/4W, 5%, Metal Film
R481	12 VRMPTV6--223J-T	22K ohm, 1/6W, 5%, Metal Film
R482	05 VRMPTV4--562J-T	5.6K ohm, 1/4W, 5%, Metal Film
R483	39 VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R484	36 VRMPTV6--222J-T	2.2K ohm, 1/6W, 5%, Metal Film
R485	12 VRMPTV6--223J-T	22K ohm, 1/6W, 5%, Metal Film
R486	64 VRMPTV6--472J-T	4.7K ohm, 1/6W, 5%, Metal Film
R487	42 VRCMTV2--105J-U	1M 1/2W, 5%, Metal Film
R488	82 VRMPTV4--100J-T	100 ohm, 1/4W, 5%, Metal Film
R489	66 VRMPTV6--562J-T	5.6K ohm, 1/6W, 5%, Metal Film
R490	42 VRCMTV2--105J-U	1M 1/2W, 5%, Metal Film
R501	63 VRMPTV6--102J-T	1K ohm, 1/6W, 5%, Metal Film
R505	83 VRMPTV6--332J-T	3.3K ohm, 1/6W, 5%, Metal Film
R509	02 VRMPTV4--102J-T	1K ohm, 1/4W, 5%, Metal Film
R510	88 VRMPTV6--471J-T	470 ohm, 1/6W, 5%, Metal Film
R511	80 VRMPTV6--273J-T	27K ohm, 1/6W, 5%, Metal Film
R512	33 VRMPTV6--163J-T	16K ohm, 1/6W, 5%, Metal Film
R513	41 VRCPTV2--151J-U	150 ohm, 1/2W, 5%, Carbon Film
R514	83 VRMPTV4--1R5J-T	1.5 ohm, 1/4W, 5%, Metal Film
R515	61 VRNMK01--R68J--	68 ohm, 1W, 5%, Metal Oxide Film
R516	23 VRMPTV6--302J-T	3K ohm, 1/6W, 5%, Metal Film
R517	43 VRMPTV6--202J-T	2K ohm, 1/6W, 5%, Metal Film
R518	40 VRMPTV6--392J-T	3.9K ohm, 1/6W, 5%, Metal Film
R519	39 VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R520	43 VRMPTV6--684J-T	680K ohm, 1/6W, 5%, Metal Film
R521	87 VRMPTV6--512J-T	5.1K ohm, 1/6W, 5%, Metal Film
R522	64 VRMPTV6--472J-T	4.7K ohm, 1/6W, 5%, Metal Film

R523	63 VRMPTV6--102J-T	1K ohm, 1/6W, 5%, Metal Film
R524	36 VRMPTV6--222J-T	2.2K ohm, 1/6W, 5%, Metal Film
R525	80 VRMPTV6--105J-T	100K ohm, 1/6W, 5%, Metal Film
R526	43 VRMPTV6--202J-T	2K ohm, 1/6W, 5%, Metal Film
R527	63 VRMPTV6--102J-T	1K ohm, 1/6W, 5%, Metal Film
R528	87 VRMPTV6--512J-T	5.1K ohm, 1/6W, 5%, Metal Film
R530	39 VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R531	36 VRMPTV6--222J-T	2.2K ohm, 1/6W, 5%, Metal Film
R532	16 VRMPTV6--393J-T	39K ohm, 1/6W, 5%, Metal Film
R534	34 VRMPTV6--132J-T	1.3K ohm, 1/6W, 5%, Metal Film
R535	17 VRCMTV2--153J-U	15K ohm, 1/2W, 5%, Metal Film
R536	39 VRNMK02--3R3J--	3.3 ohm, 2W, 5%, Metal Oxide Film
R537	87 VRMPTV6--101J-T	100 ohm, 1/6W, 5%, Metal Film
R539	56 VRMPTV6--122J-T	1.2K ohm, 1/6W, 5%, Metal Film
R540	39 VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R541	40 VRMPTV6--392J-T	3.9K ohm, 1/6W, 5%, Metal Film
R542	63 VRNMK02--101J--	100 ohm, 2W, 5%, Metal Oxide Film
R543	55 VRMPTV4--220J-T	22 ohm, 1/4W, 5%, Metal Film
R544	55 VRMPTV4--220J-T	22 ohm, 1/4W, 5%, Metal Film
R545	63 VRMPTV6--102J-T	1K ohm, 1/6W, 5%, Metal Film
R546	88 VRMPTV6--471J-T	470 ohm, 1/6W, 5%, Metal Film
R547	59 VRMPTV6--333J-T	33K ohm, 1/6W, 5%, Metal Film
R548	30 VRMPTV6-1802F-T	18K ohm, 1/6W, 1%, Metal Film
R549	31 VRMPTV6--154J-T	150K ohm, 1/6W, 5%, Metal Film
R552	78 VRMPTV6--183J-T	18K ohm, 1/6W, 5%, Metal Film
R553	16 VRNMK03--100J--	10 ohm, 3W, 5%, Metal Oxide Film
R554	39 VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R555	36 VRMPTV6--222J-T	2.2K ohm, 1/6W, 5%, Metal Film
R556	70 VRMPTV6--823J-T	82K ohm, 1/6W, 5%, Metal Film
R557	19 VRMPTV6--203J-T	20K ohm, 1/6W, 5%, Metal Film
R558	70 VRMPTV6--823J-T	82K ohm, 1/6W, 5%, Metal Film
R559	33 VRMPTV6--163J-T	16K ohm, 1/6W, 5%, Metal Film
R560	63 VRMPTV6--102J-T	1K ohm, 1/6W, 5%, Metal Film
R561	39 VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R562	39 VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R563	39 VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R565	83 VRMPTV6--332J-T	3.3K ohm, 1/6W, 5%, Metal Film
R566	66 VRMPTV6--562J-T	5.6K ohm, 1/6W, 5%, Metal Film
R567	12 VRMPTV6--223J-T	22K ohm, 1/6W, 5%, Metal Film
R568	02 VRMPTV6--682J-T	6.8K ohm, 1/6W, 5%, Metal Film
R570	64 VRMPTV6--472J-T	4.7K ohm, 1/6W, 5%, Metal Film
R571	12 VRMPTV6--223J-T	22K ohm, 1/6W, 5%, Metal Film
R572	85 VRMPTV6--820J-T	82 ohm, 1/6W, 5%, Metal Film
R574	43 VRNMK02--683J--	68K ohm, 2W, 5%, Metal Oxide Film
R575	81 VRMPTV6--242J-T	2.4K ohm, 1/6W, 5%, Metal Film
R578	40 VRMPTV6--392J-T	3.9K ohm, 1/6W, 5%, Metal Film
R579	39 VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R581	07 VRMPTV6--912J-T	9.1K ohm, 1/6W, 5%, Metal Film
R582	39 VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R583	05 VRMPTV6--822J-T	8.2K ohm, 1/6W, 5%, Metal Film
R584	39 VRMPTV6--750J-T	75 ohm, 1/6W, 5%, Metal Film
R585	16 VRMPTV6--393J-T	39K ohm, 1/6W, 5%, Metal Film
R586	02 VRMPTV6--682J-T	6.8K ohm, 1/6W, 5%, Metal Film
R587	12 VRMPTV6--223J-T	22K ohm, 1/6W, 5%, Metal Film

R588	64 VRMPTV6--472J-T	4.7K ohm, 1/6W, 5%, Metal Film
R590	02 VRMPTV6--682J-T	6.8K ohm, 1/6W, 5%, Metal Film
R592	12 VRMPTV6--223J-T	22K ohm, 1/6W, 5%, Metal Film
R593	64 VRMPTV6--472J-T	4.7K ohm, 1/6W, 5%, Metal Film
R595	26 VRMPTV4--512J-T	5.1K ohm, 1/4W, 5%, Metal Film
R606	66 VRMPTV6--562J-T	5.6K ohm, 1/6W, 5%, Metal Film
R611	69 VRNMK03--2R2J--	2.2 ohm, 3W, 5%, Metal Oxide Film
R612	66 VRMPTV6--562J-T	5.6K ohm, 1/6W, 5%, Metal Film
R613	36 VRMPTV6--222J-T	2.2K ohm, 1/6W, 5%, Metal Film
R614	39 VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R615	63 VRMPTV6--102J-T	1K ohm, 1/6W, 5%, Metal Film
R616	36 VRMPTV6--222J-T	2.2K ohm, 1/6W, 5%, Metal Film
R617	84 VRMPTV6-1002F-T	10K ohm, 1/6W, 1%, Metal Film
R618	39 VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R619	39 VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R620	50 VRMPTV6-9101F-T	9.1K ohm, 1/6W, 5%, Metal Film
R621	85 VRMPTV6-4702F-T	47K ohm, 1/6W, 1%, Metal Film
R622	16 VRMPTV6--474J-T	470K ohm, 1/6W, 5%, Metal Film
R623	15 VRMPTV6--104J-T	100K ohm, 1/6W, 5%, Metal Film
R624	48 VRMPTV6-3002F-T	30K ohm, 1/6W, 1%, Metal Film
R625	57 VRMPTV6--162J-T	1.6K ohm, 1/6W, 5%, Metal Film
R628	61 VRMPTV6-1202F-T	12K ohm, 1/6W, 1%, Metal Film
R629	06 VRMPTV6-7501F-T	7.5K ohm, 1/6W, 1%, Metal Film
R630	39 VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R631	63 VRMPTV6--102J-T	1K ohm, 1/6W, 5%, Metal Film
R632	63 VRMPTV6--102J-T	1K ohm, 1/6W, 5%, Metal Film
R633	84 VRMPTV4--122J-T	1.2K ohm, 1/4W, 5%, Metal Film
R634	12 VRMPTV6--223J-T	22K ohm, 1/6W, 5%, Metal Film
R635	84 VRMPTV4--122J-T	1.2K ohm, 1/4W, 5%, Metal Film
R637	88 VRMPTV6--471J-T	470 ohm, 1/6W, 5%, Metal Film
R638	39 VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R641	36 VRMPTV6--222J-T	2.2K ohm, 1/6W, 5%, Metal Film
R645	36 VRMPTV6--222J-T	2.2K ohm, 1/6W, 5%, Metal Film
R646	64 VRMPTV6--472J-T	4.7K ohm, 1/6W, 5%, Metal Film
R647	88 VRMPTV6--471J-T	470 ohm, 1/6W, 5%, Metal Film
R648	66 VRMPTV6--562J-T	5.6K ohm, 1/6W, 5%, Metal Film
R649	36 VRMPTV6--222J-T	2.2K ohm, 1/6W, 5%, Metal Film
R650	32 VRMPTV6--123J-T	12K ohm, 1/6W, 5%, Metal Film
R652	63 VRMPTV6--102J-T	1K ohm, 1/6W, 5%, Metal Film
R655	10 VRMPTV6--133J-T	13K ohm, 1/6W, 5%, Metal Film
R656	61 VRMPTV6-1202F-T	12K ohm, 1/6W, 1%, Metal Film
R657	23 VRMPTV6--302J-T	3K ohm, 1/6W, 5%, Metal Film
R658	15 VRMPTV6--104J-T	100K ohm, 1/6W, 5%, Metal Film
R659	39 VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R660	81 VRMPTV6--394J-T	390K ohm, 1/6W, 5%, Metal Film
R661	80 VRMPTV6--273J-T	27K ohm, 1/6W, 5%, Metal Film
R662	15 VRMPTV6--104J-T	100K ohm, 1/6W, 5%, Metal Film
R663	84 VRMPTV4--122J-T	1.2K ohm, 1/4W, 5%, Metal Film
R664	12 VRMPTV6--223J-T	22K ohm, 1/6W, 5%, Metal Film
R667	36 VRMPTV6--222J-T	2.2K ohm, 1/6W, 5%, Metal Film
R675	63 VRMPTV6--102J-T	1K ohm, 1/6W, 5%, Metal Film
R676	80 VRMPTV6--105J-T	100K ohm, 1/6W, 5%, Metal Film
R901	61 VRSPTV2--564J-U	560K ohm, 1/2W, 5%, C.C.
R902	46 VRNMK02--823J--	82K ohm, 2W, 5%, Metal Oxide Film

R902A	46 VRNMK02–823J–	82K ohm, 2W, 5%, Metal Oxide Film
R903	86 VRCMTV2–334J-U	330K ohm, 1/2W, 5%, Carbon Film
R903A	86 VRCMTV2–334J-U	330K ohm, 1/2W, 5%, Carbon Film
R904	21 VRNMK03–333J–	33K ohm, 3W, 5%, Metal Oxide Film
R905	21 VRNMK03–333J–	33K ohm, 3W, 5%, Metal Oxide Film
R906	78 VRCMTV2–220J-U	22 ohm, 1/2W, 5%, Carbon Film
R907	27 VRLCX10–251J–	250 ohm, 10W, 5%, W.W. Resistor
R908	44 VRMPTV4–203G-T	20K ohm, 1/4W, 2%, Metal Film
R909	59 VRMPTV4–154J-T	150K ohm, 1/4W, 5%, Metal Film
R910	67 VRMPTV4–103J-T	10K ohm, 1/4W, 5%, Metal Film
R911	09 VRCMTV2–120J-U	12 ohm, 1/2W, 5%, Carbon Film
R912	68 VRMPTV4–473J-T	47K ohm, 1/4W, 5%, Metal Film
R913	68 VRMPTV4–473J-T	47K ohm, 1/4W, 5%, Metal Film
R914	03 VRLLK02–R36J–	.36 ohm, 2W, 5%, Wire-Wound Fixed
R915	43 VRMPTV4–272J-T	2.7K ohm, 1/4W, 5%, Metal Film
R916	22 VRMPTV4–332J-T	3.3K ohm, 1/4W, 5%, Metal Film
R917	67 VRMPTV4–750J-T	75 ohm, 1/4W, 5%, Metal Film
R918	26 VRMPTV4–101J-T	100 ohm, 1/4W, 5%, Metal Film
R919	64 VRMPTV4–4R7J-T	4.7 ohm, 1/4W, 5%, Metal Film
R920	02 VRMPTV4–102J-T	1K ohm, 1/4W, 5%, Metal Film
R921	02 VRMPTV4–102J-T	1K ohm, 1/4W, 5%, Metal Film
R922	02 VRMPTV4–102J-T	1K ohm, 1/4W, 5%, Metal Film
R923	17 VRCMTV2–470J-U	47 ohm, 1/2W, 5%, Carbon Film
R934	26 VRMPTV4–101J-T	100 ohm, 1/4W, 5%, Metal Film
R935	87 VRMPTV4–333J-T	33K ohm, 1/4W, 5%, Metal Film
R936	63 VRMPTV4–334J-T	330K ohm, 1/4W, 5%, Metal Film
R941	77 VRNMK01–101J–	100 ohm, 1W, 5%, Metal Oxide Film
R951	31 VRNMK02–153J–	15K ohm, 2W, 5%, Metal Oxide Film
R952	08 VRNMK02–123J–	12K ohm, 2W, 5%, Metal Oxide Film
R953	20 VRMPTV4–242J-T	2.4K ohm, 1/4W, 5%, Metal Film
R954	18 VRMPTV4–152J-T	1.5K ohm, 1/4W, 5%, Metal Film
R955	67 VRMPTV4–103J-T	10K ohm, 1/4W, 5%, Metal Film
R956	83 VRMPTV4–153J-T	15K ohm, 1/4W, 5%, Metal Film
R958	54 VRMPTV4–681J-T	680 ohm, 1/4W, 5%, Metal Film
R959	02 VRCMTV2–473J-U	47K ohm, 1/2W, 5%, Carbon Film
R960	17 VRCMTV2–153J-U	15K ohm, 1/2W, 5%, Carbon Film
R963	49 VRCMTV2–101J-U	100 ohm, 1/2W, 5%, Carbon Film
R964	69 VRCMTV2–2R2J-U	2.2 ohm, 1/2W, 5%, Carbon Film

CONTROLS—

R150	01 RVR-RB131-8I1C-	10K ohm,pot., Bright
R156	04 RVR-RB131-8I1–	10K ohm,pot., Contrast
R204	26 RVRSV6018D8301-	300B R.G.B. Drive
R204	47 RVRSV6021D8301-	Second Source
R215	11 RVRSV6018D8503-	50KB R.G.B. Bias
R215	32 RVRSV6021D8503-	Second Source
R234	26 RVRSV6018D8301-	300B R.G.B. Drive
R234	47 RVRSV6021D8301-	Second Source
R245	11 RVRSV6018D8503-	50KB R.G.B. Bias
R245	32 RVRSV6021D8503-	Second Source
R264	26 RVRSV6018D8301-	300B R.G.B. Drive
R264	47 RVRSV6021D8301-	Second Source
R275	11 RVRSV6018D8503-	50KB R.G.B. Bias
R275	32 RVRSV6021D8503-	Second Source

R437	86 RVRSV8001-8503-	50KB HV-ADJ
R450	32 RVRSV8001-8102-	1K ohm,pot., H-center Control
R503	52 RVRSH6021D8104-	100K ohm,pot., V-size (1)
R504	01 RVR-RB131-8I1C-	10K ohm,pot., V-size 1
R506	56 RVRSH6021D8203-	20K ohm,pot., H-phase (1)
R507	01 RVR-RB131-8I1C-	10K ohm,pot., H-phase 1
R533	40 RVRSH6021D8501-	500 ohm,pot., H-hold
R538	80 RVRSH6021D8103-	10K ohm,pot., V-cent
R564	17 RVRSV8001-8304-	300K ohm,pot., Side-pin
R569	69 RVRSV8001-8203-	20KB H-SIZE 3
R573	56 RVR-RB131-8C1C-	300 ohm,pot., H-size
R577	01 RVR-RB131-8I1C-	10K ohm,pot., V-center
R580	84 RVRSH6021D8202-	2K ohm,pot., Keystone
R589	86 RVRSV8001-8503-	50KB H-SIZE 2
R591	52 RVRSH6021D8104-	100KB H-SIZE 1
R603A	17 RVRSV8001-8304-	300KB V-SIZE2 (400)
R605A	86 RVRSV8001-8503-	50KB V-SIZE 3 (350)
R639	80 RVRSH6021D8103-	10K ohm,pot., H-phase (3)
R640	80 RVRSH6021D8103-	10K ohm,pot., H-phase (2)
R957	12 RVRSV8001-8301-	300B B + Adj.

INDUCTOR—

	14 RCILG1055D8—	Adg Coil
L100	42 RFIL-1032D8—	Filter
L201	82 VL-LF2R2K0000—	Choke
L201B	34 VL-LFR33M0000—	Choke
L231	20 VL-LF2R7J0000—	Choke
L261	82 VL-LF2R2K0000—	Choke
L402	88 RCILL1075D8—A	H-LIN 1
L403	70 RCILL1076D8—A	H-LIN 2
L405	80 RCHO-1085D8—	Choke
L501	32 RCHO-1103D8—	Choke
L901	82 VCILF1069D8—A	Choke
L902	56 VL-LF101J0000—	Choke
T402	85 DFBTEC037-1370A	FBT

TRANSFORMER—

T401	84 ROPTH1029D8—	Drive Transformer
T403	89 RTRNL1009D8—	B + Transformer
T901	45 RCVTP3087D8—	Power Converter
T902	01 RTRNL1004D8—	Isolation Transformer

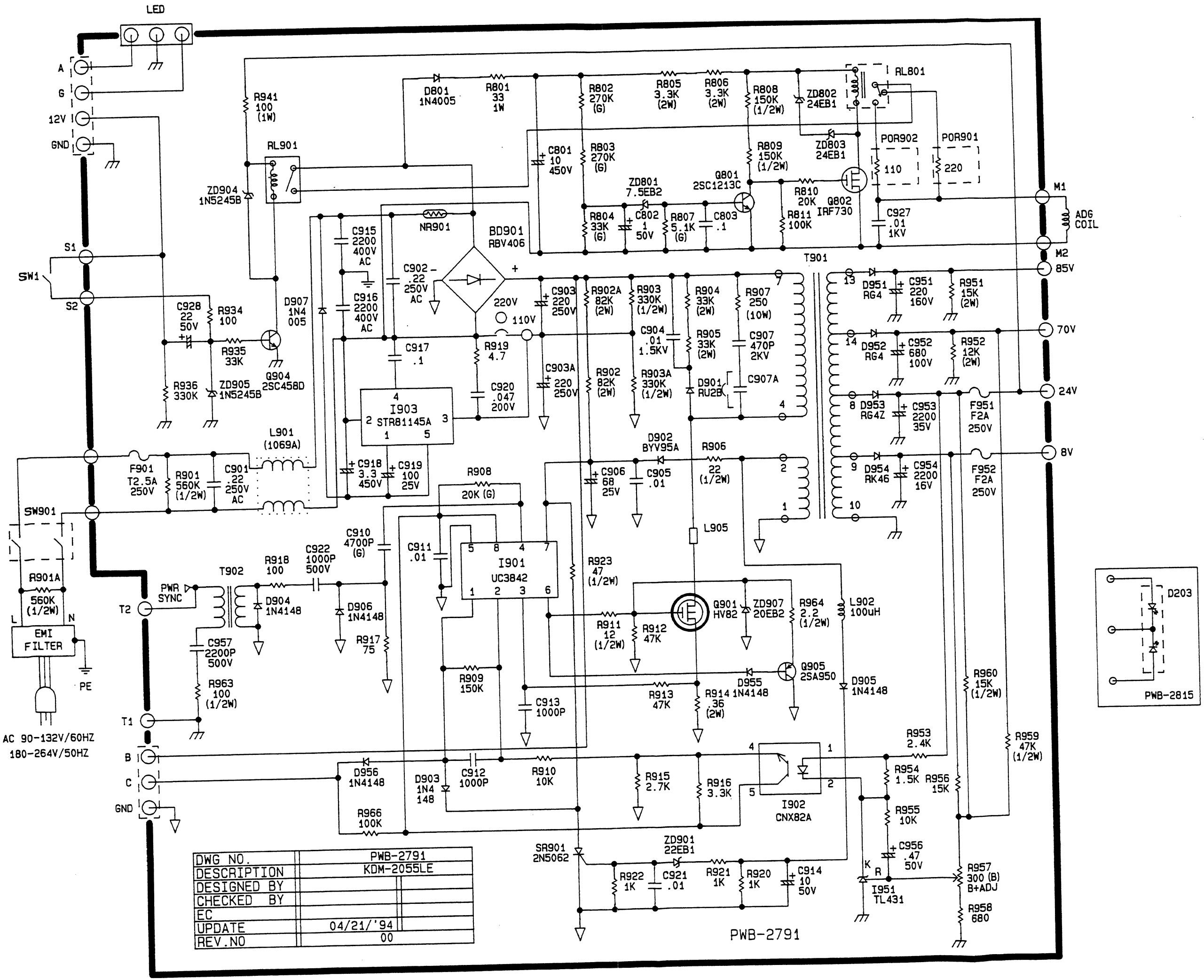
PWB ASSEMBLY—

	33 DPWB-2621D8-A2-	VIDEO PWB
	47 DPWB-2672D8—	POWER PWB
	82 DPWB-2671D8–2-	MAIN PWB
	54 DPWB-2671D8–3-	
	64 DPWB-2672D8–2-	
	05 DPWB-2257D8-A–	LED PWB

MISC.—

	14 QSOCC1339D8—A	CRT Socket
	19 QSW-P1209D8—	Degaussing SW
	82 RFILN1028D8—A	AC Filter

	28 QACC-1092D8I—	AC Cord (220V)
	85 QFSHC1002D8—A	Fuse Hold
	85 RCORF1001D8—	FCC Core
	22 VCNCP0024-Z—U	V-DY,H-DY Plug
	43 QACC-1087D8I—	AC Cord (110V)
	32 QCODS1101D8—	Signal Cable
	85 RCORF1001D8—	FCC Cord
F901	02 QFS-D252SD82K—	Fuse 2.5A 250V
F951	76 QFS-Z202FD82W—	Fuse 2A 250V
F952	76 QFS-Z202FD82W—	Fuse 2A 250V
NR901	49 VSHSG10SP005L—	Thermistor
POR901	15 VSQ451C5R0M14—	Porsistor
R261	85 QSPG-1022D8—U	Spark Gap
RL401	33 RRLYD1057D8E—	Second Source
RL401	50 RRLYD1068D8—	H-linar Switching Relay
RL901	08 RRLYD1045-1DDJB	Degaussing Switching Relay
S150	52 QSPG-1018D8—	Spark Gap
S201	85 QSPG-1022D8—U	Spark Gap
S231	52 QSPG-1018D8—	Spark Gap
SR401	71 VSSMCR100-4—	H.V. Protect
SW901	10 QSW-R1063-8BXA-	Power SW



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DESCRIPTION	KDM-2055LE
DESIGNED BY	
CHECKED BY	
EC	
UPDATE	04/21/'94
REV.NO	00

T820

PWB-2810

820
00V

901
IN1

P821

5V

12V

H+

V+

PSST

GND

P823

12V

GREEN

AMBER

P824

DWG NO.	PWB-2810
DESCRIPTION	KDM-2055LE
DESIGNED BY	
CHECKED BY	
EC	
UPDATE	04/21/'94
REV.NO	01

PWB-2621-A3

P201
GND 1
R 2
GND 3
G 4
GND 5
B 6
BLF-TEST 7
GND 8
H 9
V 10
GND 11

P202
ABL 1
GND 2
+24V 3
GND 4
+85V 5
6
61 7
6V 8
GND 9
H/B 10
V/B 11
70V 12
6V
5V
12V
H+
V+
ST
GND

R168 3.6K
R150 10K (B)
R165 7.5K
R151 1K
R153 10K
R154 5.6K
C150 .47 50V
R152 47K

IC201
CXA1209P
1 BLK
2 Bri
3 CONT
4 R I/P
5 R GND
6 G I/P
7 G GND
8 B I/P
9 B GND
18 VCC
17 CLP I/P
16 R GND
15 R O/P
14 G GND
13 G O/P
12 B GND
11 B O/P
10 BLK I/P

C159 100 100V
C156 22n
C157 100 50V
R203 22
Q201 2SC 1906
R204 300 (B) R-GAIN
D204A 1N4148
D204 1N4148
R1 33 (1/

D202 1N4148
R201 75
D232 1N4148
D203 1N4148
C201 100n
R202 47
R231 75
D262 1N4148
D233 1N4148
D203A 1N4148
C231 100n
R232 47
R261 75
D263 1N4148
D263A 1N4148
D233A 1N4148
C261 100n
R262 47

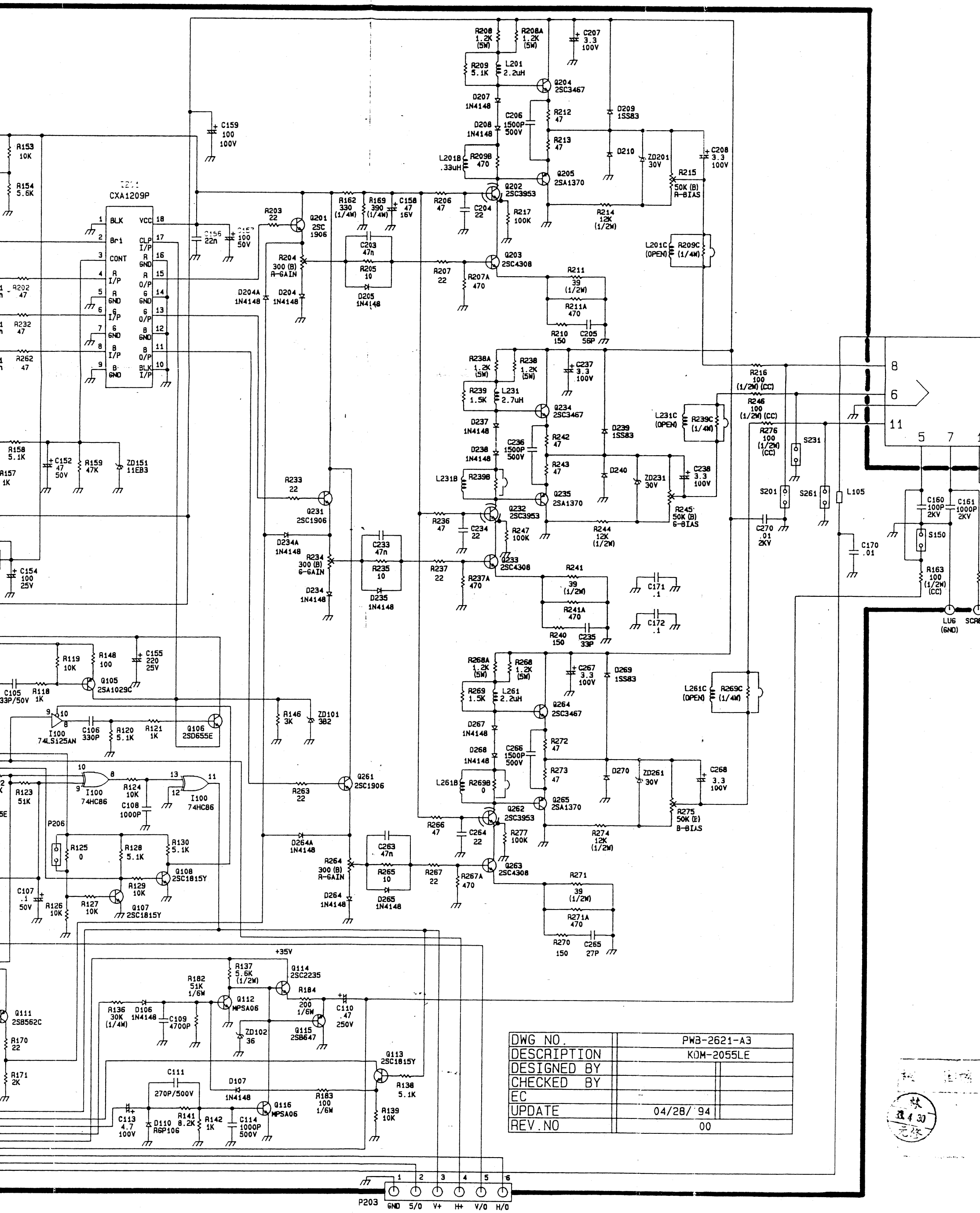
Q150 2SC1815Y
Q151 2SC1815Y
R158 5.1K
C151 1 50V
R155 12K
R156 10K (B)
R157 1K
R167 120K (1/2W)
C152 47 50V
R159 47K
ZD151 11EB3
R166 1K (1/2W)
D151 RGP106
C162 .1 250V
R167A 1.5M
1N4002 D150
R160 18 (3W)
R160A 18 (3W)
C153 100 50V
I150 MC7812
C154 100 25V
Z100 RFIL-1032D8

R233 22
Q231 2SC1906
D234A 1N4148
R234 300 (B) G-GAIN
D234 1N4148

R175 100
R176 1K
R177 12K
R172 330
Q119 2SA844D
C119 .47 100V
R173 10K
R174 10K
C120 .1 50V
R178 6.2K
I102 LM319N
R179 200
R180 5.1K
C121 10 25V
R181 1.5K
R103 3K
C102
R105 100
ZD105 5.1EB2
R108 100 (1/4W)
D103 1N4148
R112 75K
R113 75K
Q104 2SD655E
R132 6.8K
R115 10K
Q102 2SD655E
R111 10K
C271 1000P 50V
R134 1.2K
R131 20K
Q109 2SC1815Y
Q110 2SC1815Y
R133 220K
R135 2K
Q111 2SB562C
R170 22
R171 2K

D100 1N4148
D101 1N4148
R106 51K
R107 300K
I100 74HC86
74LS 125AN
I101
C103 22n
D104 1N4148
R109 20K
R116 1K
Q101 2SD655E
D102 1N4148
C104 22n
R110 75K
R119 10K
R148 100
C155 220 25V
Q105 2SA1029C
C105 33P/50V
R118 1K
I100 74LS125AN
C106 330P
R120 5.1K
R121 1K
Q106 2SD655E
I100 74HC86
C115 27P 50V
C116 27P 50V
Q103 2SD655E
R122 10K
R123 51K
R117 5.1K
R114 200K
C107 .1 50V
R126 10K
R127 10K
Q107 2SC1815Y
R129 10K
Q108 2SC1815Y
R125 0
R128 5.1K
R130 5.1K
P206
I100 74HC86
R124 10K
C108 1000P
I100 74HC86
R146 3K
ZD101 3B2
R263 22
D264A 1N4148
R264 300 (B) R-GAIN
D264 1N414

+35V
R137 5.6K (1/2W)
Q114 2SC2235
R182 51K 1/6W
R184 200 1/6W
Q112 MPSA06
Q115 2SB647
R136 30K (1/4W)
D106 1N4148
C109 4700P
ZD102 36
C111 270P/500V
D107 1N4148
R183 100 1/6W
Q116 MPSA06
C113 4.7 100V
D110 RGP106
R141 8.2K
R142 1K
C114 1000P 500V


R153 10K
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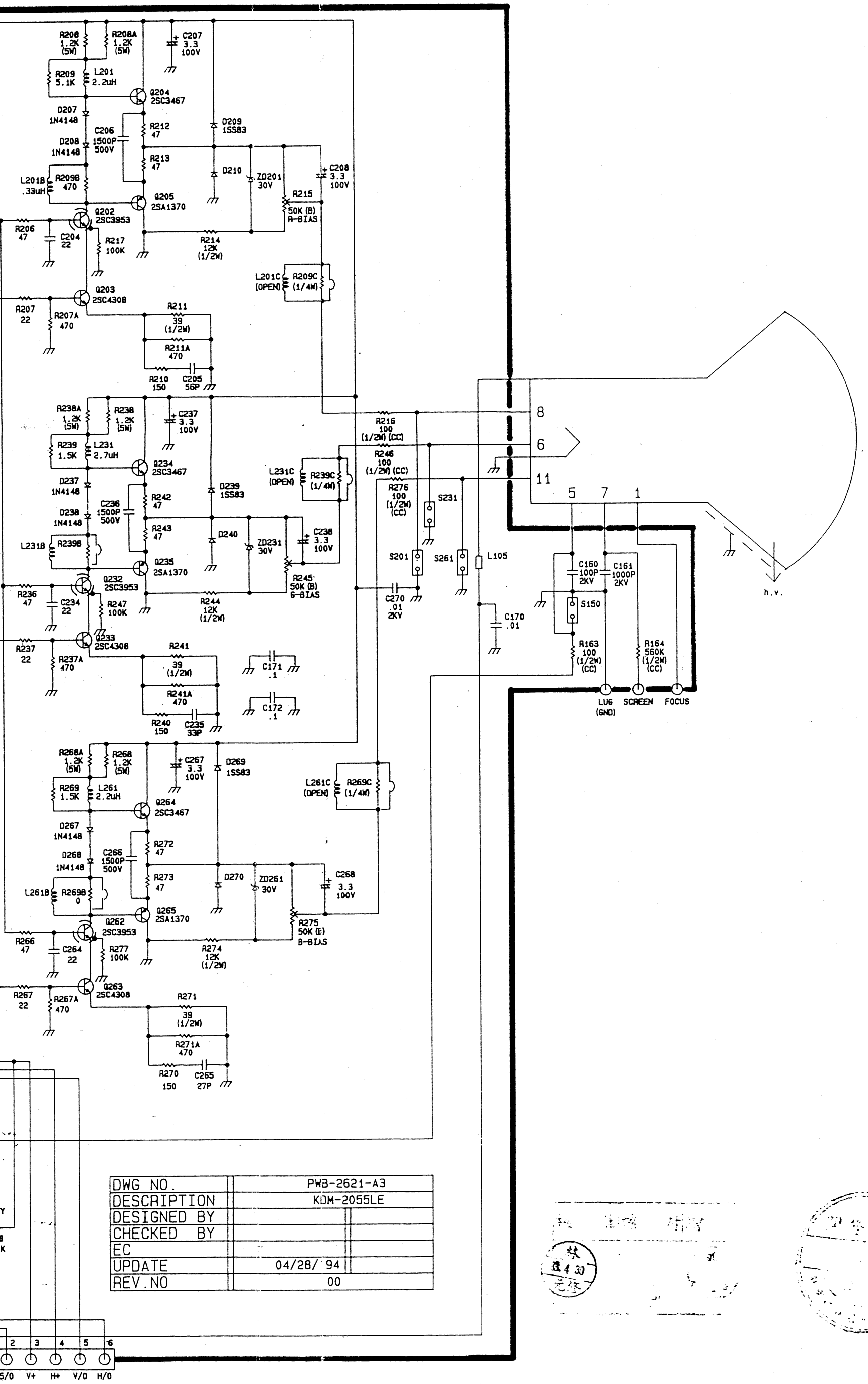
R158 5.1K
R157 1K
C154 100 25V
C159 100 100V
C156 22n
C157 100 50V
R202 47
R232 47
R262 47
C152 47 50V
R159 47K
ZD151 11EB3
CXA1209P
BLK
Brt
CONT
R I/P
R GND
G GND
G I/P
G GND
B GND
B I/P
B GND
VCC
CLP I/P
R GND
R O/P
G GND
G O/P
B GND
B O/P
BLK I/P
R203 22
Q201 2SC 1906
R204 300 (B) R-GAIN
D204A 1N4148
D204 1N4148
R162 330 (1/4W)
R169 390 (1/4W)
C158 47 16V
C203 47n
R205 10
D205 1N4148
R206 47
C204 22
R217 100K
R207 22
R207A 470
Q203 2SC4308
R208 1.2K (5W)
R208A 1.2K (5W)
C207 3.3 100V
R209 5.1K
L201 2.2uH
Q204 2SC3467
D207 1N4148
D208 1N4148
C206 1500P 500V
R212 47
R213 47
L201B .33uH
R209B 470
Q205 2SA1370
Q202 2SC3953
D209 1SS83
D210
ZD201 30V
C208 3.3 100V
R215 50K (B) R-BIAS
R214 12K (1/2W)
L201C (OPEN)
R209C (1/4W)
R211 39 (1/2W)
R211A 470
R210 150
C205 56P
R216 100 (1/2W) (CC)
R246 100 (1/2W) (CC)
R276 100 (1/2W) (CC)
S231
S201
S261
L105
C270 .01 2KV
C170 .01
C160 100P 2KV
C161 1000P 2KV
S150
R163 100 (1/2W) (CC)
LU6 (GND)
R238A 1.2K (5W)
R238 1.2K (5W)
C237 3.3 100V
R239 1.5K
L231 2.7uH
Q234 2SC3467
D237 1N4148
D238 1N4148
C236 1500P 500V
R242 47
R243 47
L231B R239B
Q235 2SA1370
Q232 2SC3953
D239 1SS83
D240
ZD231 30V
C238 3.3 100V
R245 50K (B) G-BIAS
R244 12K (1/2W)
L231C (OPEN)
R239C (1/4W)
R233 22
Q231 2SC1906
D234A 1N4148
R234 300 (B) G-GAIN
D234 1N4148
C233 47n
R235 10
D235 1N4148
R236 47
C234 22
R247 100K
Q233 2SC4308
R237 22
R237A 470
R241 39 (1/2W)
R241A 470
R240 150
C235 33P
C171 .1
C172 .1
R119 10K
R148 100
C155 220 25V
Q105 2SA1029C
C105 33P/50V
R118 1K
I100 74LS125AN
C106 330P
R120 5.1K
R121 1K
Q106 2SD655E
R146 3K
ZD101 3B2
R123 51K
I100 74HC86
R124 10K
C108 1000P
I100 74HC86
P206
R125 0
R128 5.1K
R130 5.1K
Q108 2SC1815Y
R129 10K
C107 .1 50V
R126 10K
R127 10K
Q107 2SC1815Y
Q261 2SC1906
R263 22
D264A 1N4148
R264 300 (B) R-GAIN
D264 1N4148
C263 47n
R265 10
D265 1N4148
R266 47
C264 22
R277 100K
Q263 2SC4308
R267 22
R267A 470
R271 39 (1/2W)
R271A 470
R270 150
C265 27P
R268A 1.2K (5W)
R268 1.2K (5W)
C267 3.3 100V
D269 1SS83
R269 1.5K
L261 2.2uH
Q264 2SC3467
D267 1N4148
D268 1N4148
C266 1500P 500V
R272 47
R273 47
L261B R269B
Q265 2SA1370
Q262 2SC3953
D270
ZD261 30V
C268 3.3 100V
R275 50K (B) B-BIAS
R274 12K (1/2W)
L261C (OPEN)
R269C (1/4W)
+35V
R137 5.6K (1/2W)
Q114 2SC2235
R182 51K 1/6W
Q112 MPSA06
R184 200 1/6W
C110 .47 250V
R136 30K (1/4W)
D106 1N4148
C109 4700P
ZD102 36
Q115 2SB647
Q111 2SB562C
R170 22
R171 2K
C111 270P/500V
D107 1N4148
Q113 2SC1815Y
R138 5.1K
R139 10K
R183 100 1/6W
Q116 MPSA06
C113 4.7 100V
D110 RGP106
R141 8.2K
R142 1K
C114 1000P 500V
P203
GND
5/0
V+
H+
V/0
H/0
DWG NO. PWB-2621-A3
DESCRIPTION KDM-2055LE
DESIGNED BY
CHECKED BY
EC
UPDATE 04/28/ 94
REV.NO 00



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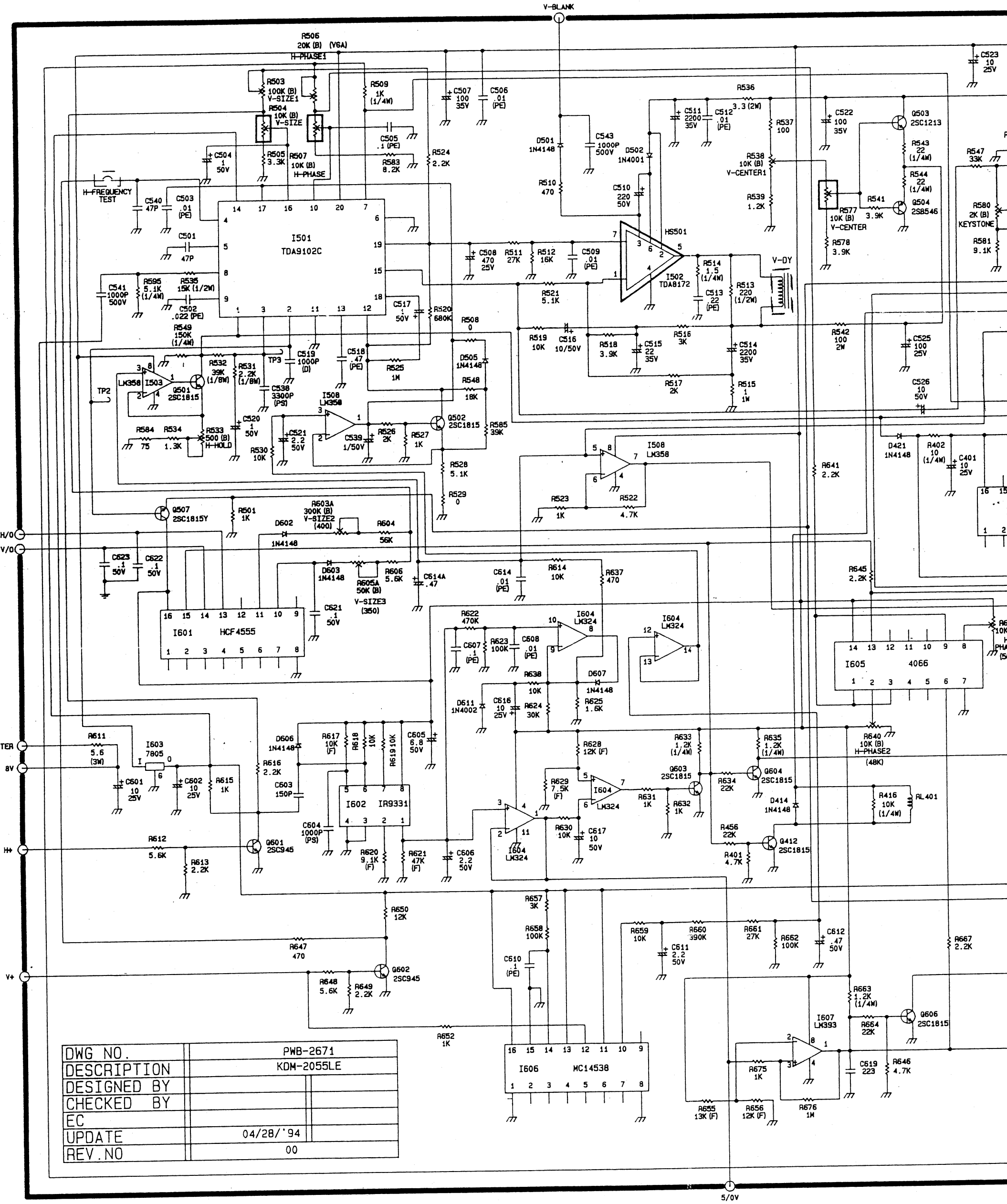

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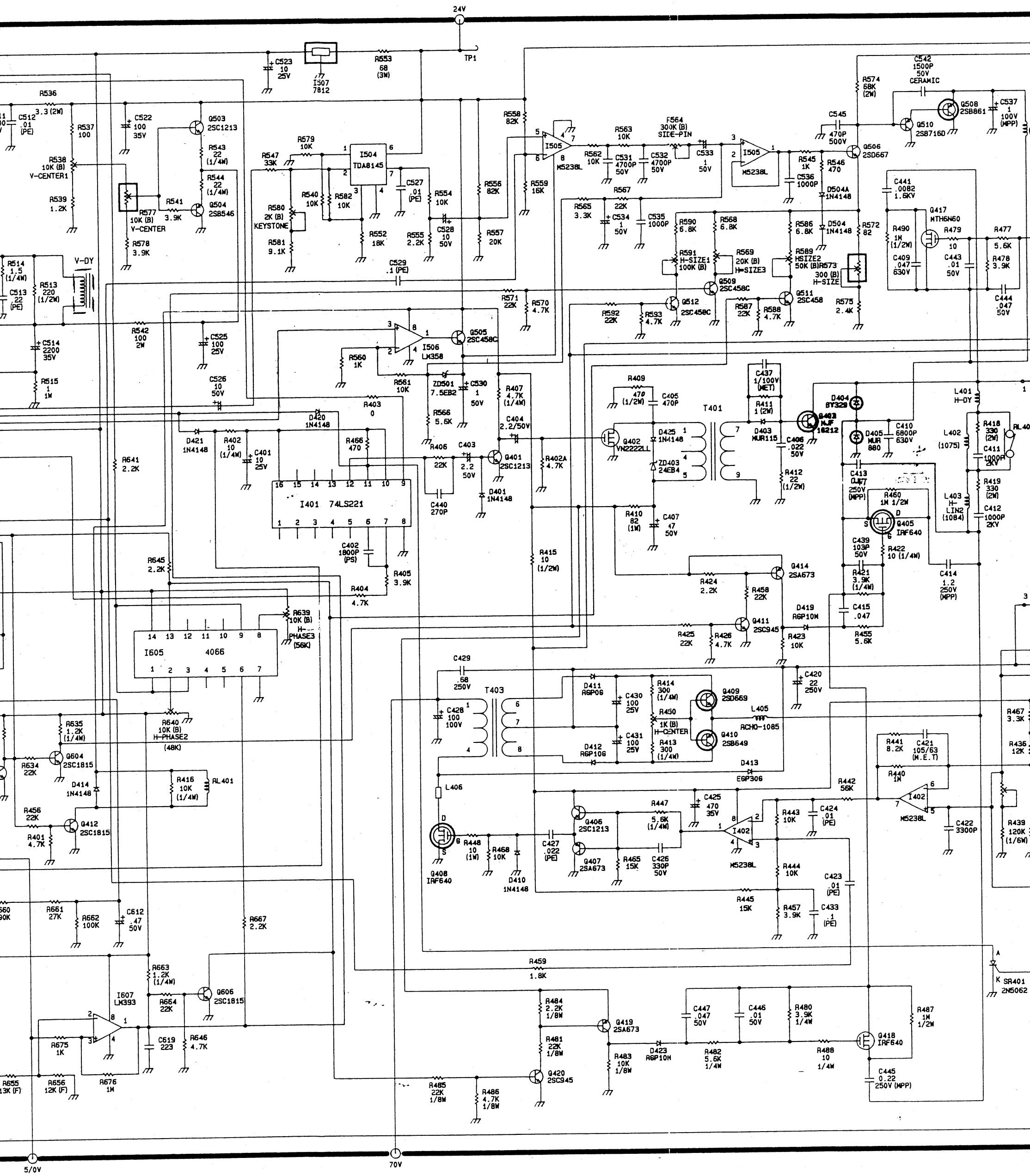
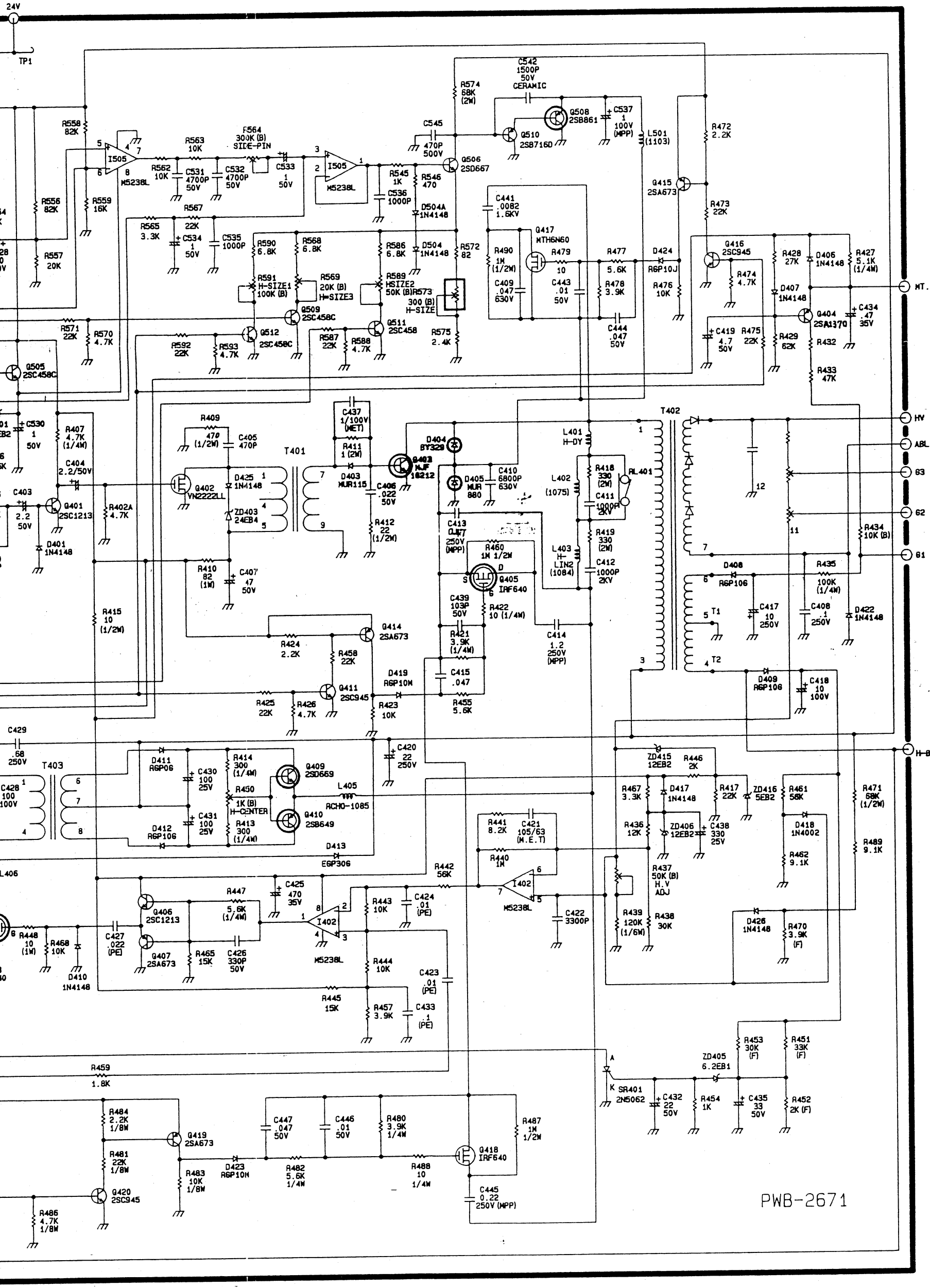

24V
TP1
C523 10 25V
I507 7812
R553 68 (3W)
R536 3.3 (2W)
C512 .01 (PE)
R537 100
R538 10K (B) V-CENTER1
R539 1.2K
C522 100 35V
R577 10K (B) V-CENTER
R578 3.9K
R541 3.9K
Q503 2SC1213
R543 22 (1/4W)
R544 22 (1/4W)
Q504 2SB546
R579 10K
R547 33K
I504 TDA8145
R540 10K
R582 10K
R580 2K (B) KEYSTONE
R581 9.1K
R552 18K
C527 .01 (PE)
R555 2.2K
R554 10K
C528 10 50V
C529 .1 (PE)
R556 82K
R557 20K
R559 16K
R558 82K
I505 M5238L
R562 10K
R563 10K
R564 300K (B) SIDE-PIN
C531 4700P 50V
C532 4700P 50V
C533 1 50V
R567
R565 3.3K
C534 1 50V
C535 1000P
R590 6.8K
R568 6.8K
R591 H-SIZE1 100K (B)
R569 20K (B) H-SIZE3
Q509 2SC458C
Q512 2SC458C
R592 22K
R593 4.7K
R571 22K
R570 4.7K
R586 6.8K
R589 HSIZE2 50K (B)
R573 300 (B) H-SIZE
D504 1N4148
R572 82
R587 22K
R588 4.7K
Q511 2SC458
R575 2.4K
C545 470P 500V
R574 68K (2W)
C542 1500P 50V CERAMIC
Q508 2SB861
Q510 2SB7160
C537 1 100V (MPP)
Q506 2SD667
R545 1K
R546 470
C536 1000P
D504A 1N4148
C441 .0082 1.6KV
Q417 MTH6N60
R490 1M (1/2W)
C409 .047 630V
R479 10
C443 .01 50V
R477 5.6K
R478 3.9K
C444 .047 50V
V-DY
R514 1.5 (1/4W)
C513 .22 (PE)
R513 220 (1/2W)
R542 100 2W
C514 2200 35V
R515 1 1W
C525 100 25V
C526 10 50V
R560 1K
R561 10K
I506 LM358
Q505 2SC458C
ZD501 7.5EB2
C530 1 50V
R566 5.6K
R407 4.7K (1/4W)
C404 2.2/50V
R403 0
D420 1N4148
D421 1N4148
R402 10 (1/4W)
C401 10 25V
R466 470
R406 22K
C403 2.2 50V
Q401 2SC1213
D401 1N4148
C440 270P
R402A 4.7K
R641 2.2K
I401 74LS221
C402 1800P (PS)
R405 3.9K
R404 4.7K
R415 10 (1/2W)
R409 470 (1/2W)
C405 470P
T401
Q402 VN2222LL
D425 1N4148
ZD403 24EB4
D403 MUR115
C406 .022 50V
R412 22 (1/2W)
C437 1/100V (MET)
R411 1 (2W)
D404 BY329
Q403 MJF 16212
D405 MUR 880
C410 6800P 630V
L401 H-DY
L402 (1075)
R418 330 (2W)
C411 1000P 2KV
RL401
R419 330 (2W)
C412 1000P 2KV
L403 H-LIN2 (1084)
C413 0.47 250V (MPP)
R460 1M 1/2W
Q405 IRF640
C439 103P 50V
R422 10 (1/4W)
C414 1.2 250V (MPP)
R410 82 (1W)
C407 47 50V
R424 2.2K
R458 22K
Q414 2SA673
R421 3.9K (1/4W)
C415 .047
R455 5.6K
R425 22K
R426 4.7K
Q411 2SC945
D419 RGP10M
R423 10K
R645 2.2K
R639 10K (B) H-PHASE3 (56K)
I605 4066
C429 .68 250V
T403
C420 22 250V
D411 RGP06
C430 100 25V
R414 300 (1/4W)
Q409 2SD669
L405 RCHO-1085
R450 1K (B) H-CENTER
Q410 2SB649
C431 100 25V
D412 RGP10G
R413 300 (1/4W)
D413 EGP30G
C428 100 100V
R635 1.2K (1/4W)
R640 10K (B) H-PHASE2 (48K)
Q604 2SC1815
R634 22K
D414 1N4148
R416 10K (1/4W)
RL401
R456 22K
Q412 2SC1815
R401 4.7K
L406
Q408 IRF640
R448 10 (1W)
R468 10K
D410 1N4148
C427 .022 (PE)
Q406 2SC1213
Q407 2SA673
R447 5.6K (1/4W)
R465 15K
C426 330P 50V
C425 470 35V
I402 M5238L
R442 56K
R443 10K
C424 .01 (PE)
R444 10K
C423 .01 (PE)
R445 15K
R457 3.9K
C433 .1 (PE)
R441 8.2K
C421 105/63 (M.E.T)
R440 1M
I402 M5238L
C422 3300P
R467 3.3K
R436 12K
R439 120K (1/6W)
R459 1.8K
A
K SR401 2N5062
R661 27K
R662 100K
C612 .47 50V
R667 2.2K
R663 1.2K (1/4W)
I607 LM393
R664 22K
Q606 2SC1815
R675 1K
C619 223
R646 4.7K
R676 1M
R655 13K (F)
R656 12K (F)
R484 2.2K 1/8W
Q419 2SA673
R481 22K 1/8W
R483 10K 1/8W
R485 22K 1/8W
R486 4.7K 1/8W
Q420 2SC945
D423 RGP10M
C447 .047 50V
C446 .01 50V
R480 3.9K 1/4W
R482 5.6K 1/4W
R488 10 1/4W
Q418 IRF640
R487 1M 1/2W
C445 0.22 250V (MPP)
5/0V
70V


24V
TP1
R558 82K
R556 82K
R557 20K
R559 16K
I505 M5238L
R562 10K
R563 10K
F564 300K (B) SIDE-PIN
C531 4700P 50V
C532 4700P 50V
C533 1 50V
C545 470P 500V
C542 1500P 50V CERAMIC
R574 68K (2W)
Q508 2SB861
Q510 2SB716D
C537 1 100V (MPP)
L501 (1103)
R472 2.2K
Q415 2SA673
R473 22K
R567 22K
R565 3.3K
C534 1 50V
C535 1000P
R590 6.8K
R568 6.8K
R591 H-SIZE1 100K (B)
R569 20K (B) H-SIZE3
R586 6.8K
D504 1N4148
D504A 1N4148
R572 82
R589 HSIZE2 50K (B)
R573 300 (B) H-SIZE
Q506 2SD667
C536 1000P
R545 1K
R546 470
C441 .0082 1.6KV
Q417 MTH6N60
R490 1M (1/2W)
C409 .047 630V
R479 10
C443 .01 50V
R477 5.6K
R478 3.9K
C444 .047 50V
D424 R6P10J
R476 10K
Q416 2SC945
R428 27K
D406 1N4148
R427 5.1K (1/4W)
R474 4.7K
D407 1N4148
Q404 2SA1370
C434 .47 35V
+C419 4.7 50V
R475 22K
R429 62K
R432
R433 47K
MT.
R571 22K
R570 4.7K
Q505 2SC458C
Q512 2SC458C
Q509 2SC458C
Q511 2SC458
R592 22K
R593 4.7K
R587 22K
R588 4.7K
R575 2.4K
C530 1 50V
R407 4.7K (1/4W)
C404 2.2/50V
C403 2.2 50V
Q401 2SC1213
D401 1N4148
R402A 4.7K
R409 470 (1/2W)
C405 470P
T401
Q402 VN2222LL
D425 1N4148
ZD403 24EB4
D403 MUR115
C406 .022 50V
R412 22 (1/2W)
C437 1/100V (MET)
R411 1 (2W)
Q403 NJF 16212
D404 BY329
D405 MUR 880
C410 6800P 630V
L401 H-DY
L402 (1075)
R418 330 (2W)
RL401
C411 1000P 2KV
L403 H-LIN2 (1084)
R419 330 (2W)
C412 1000P 2KV
T402
HV
ABL
G3
G2
G1
H-BLANKIN
R434 10K (B)
R435 100K (1/4W)
D408 R6P10G
C417 10 250V
C408 .1 250V
D422 1N4148
T1
T2
D409 R6P10G
C418 10 100V
C413 0.47 250V (MPP)
R460 1M 1/2W
Q405 IRF640
C439 103P 50V
R422 10 (1/4W)
R421 3.9K (1/4W)
C414 1.2 250V (MPP)
C415 .047
R455 5.6K
R410 82 (1W)
C407 47 50V
R415 10 (1/2W)
Q414 2SA673
R424 2.2K
R458 22K
Q411 2SC945
R425 22K
R426 4.7K
D419 RGP10M
R423 10K
C429 .68 250V
T403
D411 RGP06
D412 RGP06
C430 100 25V
C431 100 25V
R414 300 (1/4W)
R450 1K (B) H-CENTER
R413 300 (1/4W)
Q409 2SD669
Q410 2SB649
L405 RCHO-1085
D413 EGP306
C420 22 250V
R441 8.2K
C421 105/63 (M.E.T)
R440 1M
I402 M5238L
C422 3300P
R442 56K
C425 470 35V
R447 5.6K (1/4W)
Q406 2SC1213
Q407 2SA673
C427 .022 (PE)
R465 15K
C426 330P 50V
R443 10K
C424 .01 (PE)
R444 10K
R445 15K
C423 .01 (PE)
R457 3.9K
C433 .1 (PE)
R448 10 (1W)
R468 10K
D410 1N4148
R459 1.8K
R484 2.2K 1/8W
R481 22K 1/8W
R483 10K 1/8W
R486 4.7K 1/8W
Q419 2SA673
Q420 2SC945
D423 RGP10M
C447 .047 50V
C446 .01 50V
R480 3.9K 1/4W
R482 5.6K 1/4W
R488 10 1/4W
Q418 IRF640
R487 1M 1/2W
C445 0.22 250V (MPP)
ZD415 12EB2
R446 2K
R467 3.3K
D417 1N4148
R417 22K
ZD416 5EB2
R436 12K
ZD406 12EB2
C438 330 25V
R437 50K (B) H.V ADJ
R439 120K (1/6W)
R438 30K
R461 56K
D418 1N4002
R462 9.1K
R471 68K (1/2W)
R489 9.1K
D426 1N4148
R470 3.9K (F)
R453 30K (F)
R451 33K (F)
ZD405 6.2EB1
SR401 2N5062
C432 22 50V
R454 1K
C435 33 50V
R452 2K (F)
PWB-2671